MySeatSpace

<<Physical>>

(F003519)

|  |  |  |  |
| --- | --- | --- | --- |
| Document Type | **Feature Implementation Specification (FIS)** | |  |
| Template Version | **6.1a** | |  |
| SysML Report Template Version | **O Beta (2021/06/01)** | |  |
| Document ID | **featureimplementationspecification\_dev.docx** | |  |
| Document Location |  | |  |
| Document Owner |  | |  |
| Document Revision | **FIS0** | |  |
| Document Status | **Draft** | |  |
| Date Issued | **2021/08/13** | |  |
| Date Revised | **2021/08/13** | |  |
| Document Classification | GIS1 Item Number: | **27.60/35** |  |
| GIS2 Classification: | **Confidential** |

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# Introduction

## Document Purpose

The Feature Implementation Specification (FIS) specifies the deployment of the logical functions of a feature to an electrical architecture. The FIS specifies all interactions between the ECUs of the electrical architecture required for the feature including the technical signals and the interfaces. It also gives interface and integration requirements, which are specific to the feature for the electrical architecture.

To get more information about the concept of feature, function and component level abstraction refer to the [Ford RE Wiki](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Engineering+for+SW+Enabled+Features).

## Document Scope

This FIS describes the deployment of the feature MySeatSpace <Feature> to the following electrical architecture(s):

|  |  |  |
| --- | --- | --- |
| **Electrical Architecture Name** | **Owner** | **Reference** |
| FNV3.0 CAN SOA |  | "VSEM" |

Table 1‑1: Electrical Architecture(s) referenced in this document

## Document Audience

The FIS is authored by - . All Stakeholders, i.e., all people who have a valid interest in the feature implementation should read and, if possible, review the FIS. It needs to be guaranteed, that all stakeholders have access to the currently valid version of the FIS.

### Stakeholder List

For the latest list of the function stakeholders and their roles & responsibilities refer to <VDOC099532>.

## References

### Ford Documents

The list of all Ford internal documents, which are directly related.

|  |  |  |
| --- | --- | --- |
| Document Name | Document Owner | Identifier Number |
| MSS CIED ARL | Raven Fields | FEDE: RQT-002004- 712583 |
| URC Feature Document | Gregory Reed | VSEM:VDOC080630 |
| URC Functional Specifications | Gregory Reed | VSEM:VDOC080631 |
| URC Feature Implementation Specifications | Gregory Reed | VSEM:VDOC080632 |
| MyKey Feature Specifications | Ankisha Kudyar | VSEM:VDOC093428 |
| Passenger Phone Call SPSS | Balakrishnan Ganesan | VSEM:VDOC099175 |
| Zone Manager SPSS | Balakrishnan Ganesan | Pending |
| Media Share SPSS | Balakrishnan Ganesan | Pending |
| ICC SPSS | Savitha Emani | Pending |
| CA SPSS | Savitha Emani | Pending |

Table 1‑2: Ford internal Documents

### External Documents and Publications

The list of external documents could include books, reports and online sources.

| **Reference** | **Document / Publication** |
| --- | --- |
| IEEE Std 1012-2004 IEEE Standard for Software Verification and Validation |  |
| ISO/IEC 19500-2:2003 |  |
| UML Testing Profile (UTP), v1.2 |  |
| Wikipedia | https://en.wikipedia.org/wiki/Concept |

Table 1‑3: External documents and publications

## Glossary

### Definitions

| **Definition** | **Description** |
| --- | --- |
|  |  |
| 2 Zone Audio Share | A lockout that can be activated via the front HMI screen. The lockout pushes the zone configuration from 4 zones to 2 zones (The front zone and the rear zone) |
| Cabin Mode | The audio mode that plays audio through the cabin speakers. This involves a single source playing through the vehicle. |
| Duck | Audio is reduced to allow another audio source to play at a heightened level |
| Front Zone | A zone configuration that is exclusive to "2 Zone Audio Share": This zone is allocated to the driver and first row passenger |
| Kick/Push | Allocation is removed from a user and an alternative solution is provided |
| Rear Zone | A zone configuration that is exclusive to "2 Zone Audio Share": This zone is allocated to the second and third row passengers |
| Zone 1 | The zone allocated to the driver. |
| Zone 2 | The zone allocated to the first row passenger. |
| Zone 3 | The zone allocated to the second row left and third row left passengers. |
| Zone 4 | The Zone allocated to the second row right and third row right passengers. |
| Zone Mode | The audio mode that plays audio through zone speakers. Different media will play through different zone speakers, allowing for multiple sources to play throughout the vehicle. |

Table 1‑4: Definitions used in this document

### Abbreviations

| **Abbr.** | **Stands for** |
| --- | --- |
| A2B | Automotive Audio Bus |
| BLE | Bluetooth Low Energy |
| BT | Bluetooth |
| CA | Captain's Announcement |
| DAB | Digital Audio Broadcasting |
| DND | Do Not Disturb |
| DSP | Digital Signal Processing |
| HMI | Human-Machine Interface |
| ICC | In Car Communication |
| LVDS | Low Voltage Differential Signaling |
| MSS | My Seat Space |
| NMK | Not MyKey |
| PAC | Phoenix Audio Controller Module: ACM(AHU) Module |
| PDC | Phoenix Domain Controller Module: APIM\_CDC |
| RACM | Rear Audio Control Module |
| SDARS | Satellite Digital Audio Receiver System |
| TA | Traffic Announcement |
| VR | Voice Recognition |

Table 1‑5: Abbreviations used in this document.

# Feature Implementation Overview

## Description

MySeatSpace

The feature looks to improve each customers’ individual entertainment and communication experience. This is accomplished by giving customers an isolated immerse audio experience, enabling zones in the vehicle to have to their own audio source while minimizing distraction to others in the vehicle. This feature further enables in-car communication, private phone calls, media stream sharing, and audio enhancements.

1. Multiple simultaneous connections/controls

• System allows for per zone personalized audio experiences.

• Audio and media streaming as well as private phone calls are contained to one seat without affecting others

• Chimes and prompts can be sent to the appropriate seat without interrupting the entire vehicle.

2. Media sharing and enhanced in-vehicle communication

• Allows for improved two-way row-to-row communication by amplifying occupant speech.

• Allows for one-way communication for driver announcements

• Users can share their media content with others in the vehicle

3. Realtime control inside the vehicle

• Allows control of personalized seat environment

• Climate, lighting and seat controls can be managed by an app on user’s phone(URC).

## Input Requirements/Documents

|  |  |  |  |
| --- | --- | --- | --- |
| **Reference**  (Reference as listed in ch. “References”) | **Section/Requirement** | **Description** | **Derived Requirement**  (optional – reference to requirement in ch. “Feature Implementation Requirements”) |
| **Feature/Function Requirements** | | | |
|  |  |  |  |
|  |  |  |  |
| **Ford Engineering Standards** | | | |
|  |  |  |  |
|  |  |  |  |
| **Legal Regulations** | | | |
|  |  |  |  |
| **Industry Standards** | | | |
|  |  |  |  |
| **Other Sources** | | | |
|  |  |  |  |
|  |  |  |  |

Table 2‑1: Input Requirements/Documents

## Lessons Learned

No lessons learned specified.

## Assumptions

No Assumptions specified.

# Feature Implementation Architecture

## Functional Architecture

### Description



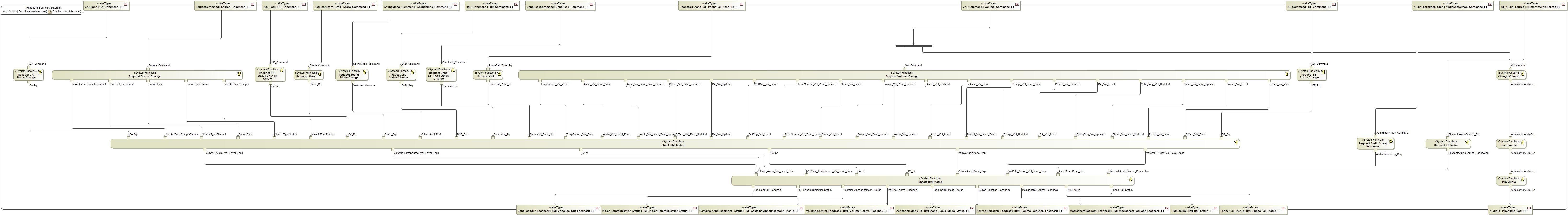


Figure 3‑1: Functional Architecture

### Function List

The following functions from the [Global Feature & Function List](https://www.vsemweb.ford.com:443/tc/launchapp?-attach=true&-s=226TCSession&-o=ZmZNi0JHx3NrTDAAAAAAAAAAAAA) are referenced in this Feature Implementation Specification:

| **Function ID** | Function Name | Function Description |
| --- | --- | --- |
|  | (action) Request CA Status Change | MSS Function responsible for providing Captain's Announcement activate and deactivate status |
|  | (action) Request Audio Share Response | MSS Function responsible for Requesting recipient's Response for Audio Share Requests (SYNC/URC) |
|  | (action) Request Volume Change | MSS Function responsible for providing the Request to Change Volume Status |
|  | (action) Play Audio | MSS Function responsible for Requesting to Play Audio and designate Audio Type |
|  | (action) Check HMI Status | MSS Function responsible for checking the status of several signals or HMI Status for MySeatSpace |
|  | (action) Request Share | MSS Function responsible for sharing media from one source to other zones or cabin |
|  | (action) Request Call | MSS Function responsible for providing status of Driver/Passenger receiving phone call |
|  | (action) Request BT Status Change | MSS Function responsible for providing Changing Bluetooth status when a phone connects or disconnects. |
|  | (action) Connect BT Audio | MSS Function responsible for providing Initiate BT Audio Connection Status |
|  | (action) Request Sound Mode Change | MSS Function responsible for Changing the Sound Modes in the Vehicle |
|  | (action) Request Zone Lock Out Status Change | MSS Function responsible for Zone Lock Activation and Deactivation |
|  | (action) Request ICC Status Change ON/OFF | MSS Function responsible for In-Car Communication activation and deactivation |
|  | (action) Change Volume | MSS Function responsible for Adjusting the Volume |
|  | (action) Route Audio | MSS Function responsible for Routing Media to specific speakers/seats |
|  | (action) Request DND Status Change | MSS Function responsible for Do Not disturb activation and deactivation |
|  | (action) Request Source Change | MSS Function responsible for providing Source Selected Status (AM/FM, BT Stream, Pandora, etc.) |
|  | (action) Update HMI Status | MSS Function responsible for Updating Signal or HMI Statuses related to MySeatSpace |

Table 3‑1: List of Functions

### Signal List

|  |  |
| --- | --- |
| **Signal Name** | **Description** |
| **AudioShareResp\_Command** | Audio Share Resp Command (Physical Touch) |
| **AudioShareResp\_Req** | Internal Signal for Audio SHare Response |
| **Audio\_Vol\_Level** | Signal for Audio volume in full cabin mode |
| **Audio\_Vol\_Level\_Zone** | Signal is for the Media volume in Zone 1 to Zone 6. |
| **Audio\_Vol\_Updated** | Signal indicates if audio volume was updated because of a user activated event in full cabin mode |
| **Audio\_Vol\_Zone\_Updated** | Signal indicates if the Media volume was updated because of a user activated event in Zone 1 to Zone 6 |
| **AutomotiveAudio\_Req** | Internal Signal for Automotive Audio Req |
| **BTConnectionReq** | Internal Signal for Bluetooth Connection Request |
| **BT\_Command** | Bluetooth Command (Physical Touch) |
| **BluetoothAudioSource** | Internal Signal for Bluetooth Audio Source |
| **BluetoothAudioSource\_Connection** | Internal Signal for Bluetooth Audio Source |
| **CA.Rq** | Signal to request activation or deactivation of Captain Annoucement |
| **CA.St** | Signal to provide status feedback of Captain Annoucement State. |
| **CA\_Command** | Captain's Announcement Command (Physical Touch) |
| **CallRing\_Vol\_Level** | Signal for Call Ring volume in full cabin mode |
| **CallRing\_Vol\_Updated** | Signal indicates if Call ring volume was updated because of a user activated event in full cabin mode |
| **ChangeVolume\_Req** | Internal Signal for Change Volume |
| **DND.Rq** | Internal Signal for Do Not Disturb |
| **DND\_Command** | Do Not Disturb Command (Physical Touch) |
| **HMI\_Captains Announcement\_ Status** | HMI Status update for CA |
| **HMI\_DND Status** | HMI Status update for DND Status |
| **HMI\_In-Car Communication Status** | HMI Status update for ICC |
| **HMI\_MediashareRequest\_Feedback** | HMI Feedback update for Media Share Request |
| **HMI\_Phone Call\_Status** | HMI Status update for Phone Call |
| **HMI\_Source Selection\_Feedback** | HMI Feedback update for Source Selection |
| **HMI\_Volume Control\_Feedback** | HMI Feedback update for Volume Control |
| **HMI\_ZoneLockOut\_Feedback** | HMI Feedback update for Zone Lockout |
| **HMI\_Zone\_Cabin\_Mode\_Status** | HMI Status update for Zone/Cabin Mode |
| **ICC\_Command** | In Car's Communication Command (Physical Touch) |
| **ICC\_Rq** | Signal to request activation or deactivation of InCar Communication |
| **ICC\_St** | Signal to provide status feedback of InCar Communication |
| **KeyType** | Key Type (MyKey/NotMyKey) |
| **MicrophoneStatus** | Microphone Status (Enabled/Disabled) |
| **MixableZonePrompts** | Signal indicates if mixable zone prompts are active or inactive for Zone 1 to Zone 6. |
| **MixableZonePromptsChannel** | Signal specifies audio channel for the mixable zone prompts on zone 1 to Zone 6 |
| **Offset\_Vol\_Zone** | Signal is for the offset volume in Zone 1 to Zone 6. |
| **Offset\_Vol\_Zone\_Updated** | Signal indicates if the Offset volume was updated because of a user activated event |
| **PhoneCall\_Zone\_Rq** | Signal requesting to switch the active phone call. This message is intended only for the Phones connected and mapped to zone 2. |
| **PhoneCall\_Zone\_St** | Signal indicating the call status for the Phones connected and mapped to zone 2 |
| **Phone\_Vol\_Level** | Signal for Phone volume in full cabin mode |
| **Phone\_Vol\_Updated** | Signal indicates if phone volume was updated because of a user activated event in full cabin mode |
| **PlayAudio\_Req** | Internal Signal for Play Audio Req |
| **Prompt\_Vol\_Level** | Signal for Prompt volume in full cabin mode |
| **Prompt\_Vol\_Level\_Zone** | Signal is for the Prompt volume in Zone 1 to Zone 6. |
| **Prompt\_Vol\_Updated** | Signal indicates if prompt volume was updated because of a user activated event in full cabin mode |
| **Prompt\_Vol\_Zone\_Updated** | Signal is to indicate if the Prompt volume was updated because of a user activated event |
| **RA\_Vol\_Level** | Signal for Radio Announcement volume in full cabin mode |
| **RA\_Vol\_Updated** | Signal indicates if RA volume was updated because of a user activated event in full cabin mode |
| **Share\_Command** | Request Share Command (Physical Touch) |
| **Share\_Rq** | Internal Signal for Audio Share Response |
| **SoundMode\_Command** | Sound Mode Command (Physical Touch) |
| **SourceType** | Signal specifies selection of source type of audio used for zone 1 to zone 6 |
| **SourceTypeChannel** | Signal specifies selection of audio channel for the audio source for zone 1 to zone 6 |
| **SourceTypeStatus** | Signal specifies the source type status of audio source used for zone 1 to zone 6 |
| **Source\_Command** | Source Command (Physical Touch) |
| **TempSource\_Vol\_Level\_Zone** | Signal is for the Phone, Call Ring, and Radio Announcement volume in Zone 1 to Zone 6. |
| **TempSource\_Vol\_Zone\_Updated** | Signal indicates if the TempSource volume was updated because of a user activated event |
| **VehicleAudioMode** | Signal to request to select Cabin mode or Zone Mode. |
| **VehicleAudioMode\_Rsp** | Signal provides feedback on Audio mode selection |
| **VolCntlr\_Audio\_Vol\_Level\_Zone** | Signal provides status of media volume that is active in zones 1 - 6 |
| **VolCntlr\_Offset\_Vol\_Level\_Zone** | Signal provides status of the offset volume that is active in zones 1 - 6 |
| **VolCntlr\_TempSource\_Vol\_Level\_Zone** | Signal provides status of Phone, Call Ring or Radio Announcement volume that is active in zones 1 - 6 |
| **Volume\_Command** | Volume Command (Physical Touch) |
| **ZoneLockReq** | Internal Signal for Zone Lock Request |
| **ZoneLock\_Command** | Zone Lock Command (Physical Touch) |

Table 3‑3: List of Logical Signals

## Physical Architecture

### E/E Architecture

#### E/E Architecture Variants

|  |  |  |
| --- | --- | --- |
| **E/E Architecture Variant Name** | **Variant Description** | **Variant Condition (Optional)** |
| Variant 1 | "FNV3.0" |  |

Table 3‑5: List of E/E Architecture Variants

##### E/E Architecture “Architecture Variant”: Physical Architecture

This E/E Architecture variant is for feaure MySeatSpace highlighting interaction between associated modules.



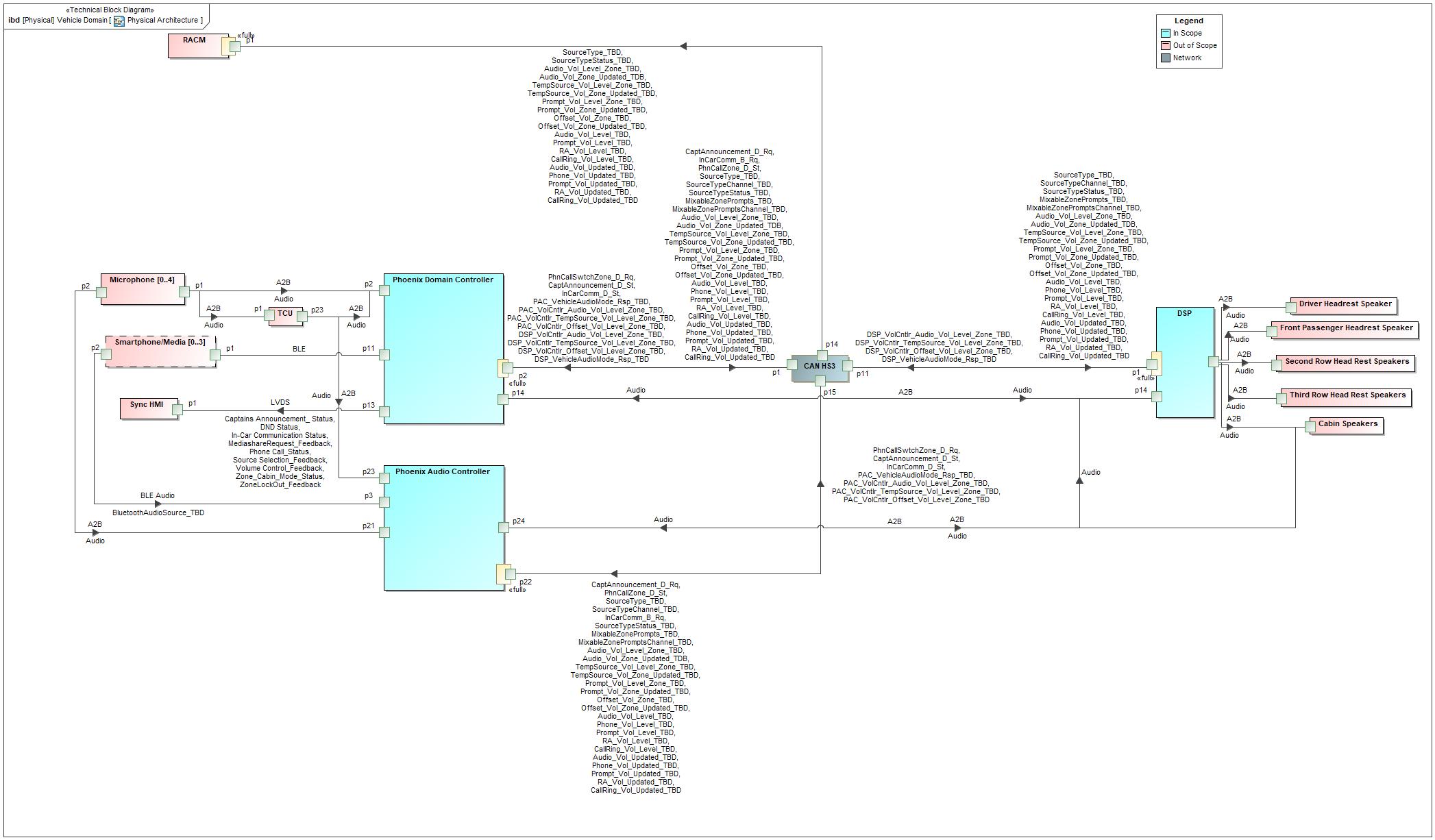


Figure 3‑2-1: Physical Architecture

#### E/E Components

|  |  |
| --- | --- |
| Component Name | **Description** |
| Cabin Speakers (Speakers) | Speakers allocated to each zone to play audio |
| Driver Headrest Speaker (Speakers) | Speakers allocated to each zone to play audio |
| DSP | Amplifier supporting DSP-based audio post-processing functions |
| Front Passenger Headrest Speaker (Speakers) | Speakers allocated to each zone to play audio |
| Microphone | Microphones allocated to each seat to pick up speech from driver/passengers |
| Phoenix Audio Controller | ECU integrating terrestrial and satellite tuners, DSP-based audio post-processing, and amplifier functions. |
| Phoenix Domain Controller | ECU integrating SYNC + cluster functions |
| RACM | Rear Audio Control Module |
| Second Row Head Rest Speakers (Speakers) | Speakers allocated to each zone to play audio |
| Smartphone/Media | Brought in device utilizing the URC application to complete MSS/URC actions or stream media |
| Sync HMI | Screen available in the front row for the driver and front row passenger to complete MSS actions |
| TCU | Telematics Control Unit (Module) Handles Ecall feature funcitonality |
| Third Row Head Rest Speakers (Speakers) | Speakers allocated to each zone to play audio |

Table 3‑6: Electrical Components

#### E/E Connections

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Connection Name | **Connection Type** | **Protocol**  Only if ‘Connection Type’ is “Network”/”RF-Digital” | **Description** | **Allocated Messages**  Only if ‘Connection Type’ is “Network”/”RF-Digital” | **Connected Nodes** |
| HS3-CAN | Network | CAN (High Speed) | "High Speed Can" |  | "RACM, PDC, PAC, DSP" |
| BLE | Network | Bluetooth | "Bluetooth Low Energy" |  | "Smartphone, PDC, PAC" |
| A2B | Network | Automotive Audio Bus | "Automotive Audio Bus" |  | "DSP, Microphone,Speakers" |
| LVDS | Network | Video | "Low Voltage Differential Signal" |  | "PDC, SYNC HMI" |

Table 3‑7: E/E Connections

#### Signal List

|  |  |
| --- | --- |
| Name | Documentation |
| Audio |  |
| Audio\_Vol\_Level\_TBD | Signal for Audio volume in full cabin mode |
| Audio\_Vol\_Level\_Zone\_TBD | Signal is for the Media volume in Zone 1 to Zone 6. |
| Audio\_Vol\_Updated\_TBD | Signal indicates if audio volume was updated because of a user activated event in full cabin mode |
| Audio\_Vol\_Zone\_Updated\_TDB | Signal indicates if the Media volume was updated because of a user activated event in Zone 1 to Zone 6 |
| AudioShareResp\_Command\_TBD | Audio Share Resp Command (Physical Touch) |
| BLE\_AudioShareResp\_Req\_TBD | Internal Signal for Audio SHare Response |
| A2B\_AutomotiveAudio \_Req\_TBD | Internal Signal for Automotive Audio Req |
| BluetoothAudioSource\_TBD | Internal Signal for Bluetooth Audio Source |
| BluetoothAudioSource\_Connection\_TBD | Internal Signal for Bluetooth Audio Source |
| BT\_Command\_TBD | Bluetooth Command (Physical Touch) |
| BTConnectionReq\_TBD | Internal Signal for Bluetooth Connection Request |
| CA\_Command\_TBD | Captain's Announcement Command (Physical Touch) |
| CaptAnnouncement\_D\_Rq | Signal to request activation or deactivation of Captain Annoucement |
| CaptAnnouncement\_D\_St | Signal to provide status feedback of Captain Annoucement State. |
| CallRing\_Vol\_Level\_TBD | Signal for Call Ring volume in full cabin mode |
| CallRing\_Vol\_Updated\_TBD | Signal indicates if Call ring volume was updated because of a user activated event in full cabin mode |
| BLE\_ChangeVolume\_TBD | Internal Signal for Change Volume |
| DND\_Command\_TBD | Do Not Disturb Command (Physical Touch) |
| BLE\_DND.Rq\_TBD | Internal Signal for Do Not Disturb |
| Captains Announcement\_ Status | HMI Status update for CA |
| DND Status | HMI Status update for DND Status |
| In-Car Communication Status | HMI Status update for ICC |
| MediashareRequest\_Feedback | HMI Feedback update for Media Share Request |
| Phone Call\_Status | HMI Status update for Phone Call |
| Source Selection\_Feedback | HMI Feedback update for Source Selection |
| Volume Control\_Feedback | HMI Feedback update for Volume Control |
| Zone\_Cabin\_Mode\_Status | HMI Status update for Zone/Cabin Mode |
| ZoneLockOut\_Feedback | HMI Feedback update for Zone Lockout |
| ICC\_Command\_TBD | In Car's Communication Command (Physical Touch) |
| InCarComm\_B\_Rq | Signal to request activation or deactivation of InCar Communication |
| InCarComm\_D\_St | Signal to provide status feedback of InCar Communication |
| MixableZonePrompts\_TBD | Signal indicates if mixable zone prompts are active or inactive for Zone 1 to Zone 6. |
| MixableZonePromptsChannel\_TBD | Signal specifies audio channel for the mixable zone prompts on zone 1 to Zone 6 |
| Offset\_Vol\_Zone\_TBD | Signal is for the offset volume in Zone 1 to Zone 6. |
| Offset\_Vol\_Zone\_Updated\_TBD | Signal indicates if the Offset volume was updated because of a user activated event |
| Phone\_Vol\_Level\_TBD | Signal for Phone volume in full cabin mode |
| Phone\_Vol\_Updated\_TBD | Signal indicates if phone volume was updated because of a user activated event in full cabin mode |
| PhnCallSwtchZone\_D\_Rq | Signal requesting to switch the active phone call. This message is intended only for the Phones connected and mapped to zone 2. |
| PhnCallZone\_D\_St | Signal indicating the call status for the Phones connected and mapped to zone 2 |
| A2B\_PlayAudio\_Req\_TBD | Internal Signal for Play Audio Req |
| Prompt\_Vol\_Level\_TBD | Signal for Prompt volume in full cabin mode |
| Prompt\_Vol\_Level\_Zone\_TBD | Signal is for the Prompt volume in Zone 1 to Zone 6. |
| Prompt\_Vol\_Updated\_TBD | Signal indicates if prompt volume was updated because of a user activated event in full cabin mode |
| Prompt\_Vol\_Zone\_Updated\_TBD | Signal is to indicate if the Prompt volume was updated because of a user activated event |
| RA\_Vol\_Level\_TBD | Signal for Radio Announcement volume in full cabin mode |
| RA\_Vol\_Updated\_TBD | Signal indicates if RA volume was updated because of a user activated event in full cabin mode |
| Share\_Command\_TBD | Request Share Command (Physical Touch) |
| BLE\_Share\_Rq\_TBD | Internal Signal for Audio Share Response |
| SoundMode\_Command\_TBD | Sound Mode Command (Physical Touch) |
| Source\_Command\_TBD | Source Command (Physical Touch) |
| SourceType\_TBD | Signal specifies selection of source type of audio used for zone 1 to zone 6 |
| SourceTypeChannel\_TBD | Signal specifies selection of audio channel for the audio source for zone 1 to zone 6 |
| SourceTypeStatus\_TBD | Signal specifies the source type status of audio source used for zone 1 to zone 6 |
| TempSource\_Vol\_Level\_Zone\_TBD | Signal is for the Phone, Call Ring, and Radio Announcement volume in Zone 1 to Zone 6. |
| TempSource\_Vol\_Zone\_Updated\_TBD | Signal indicates if the TempSource volume was updated because of a user activated event |
| VehicleAudioMode\_TBD | Signal to request to select Cabin mode or Zone Mode. |
| DSP\_VehicleAudioMode\_Rsp\_TBD | Signal provides feedback on Audio mode selection |
| PAC\_VehicleAudioMode\_Rsp\_TBD | Signal provides feedback on Audio mode selection |
| DSP\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD | Signal provides status of media volume that is active in zones 1 - 6 |
| PAC\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD | Signal provides status of media volume that is active in zones 1 - 6 |
| DSP\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD | Signal provides status of the offset volume that is active in zones 1 - 6 |
| PAC\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD | Signal provides status of the offset volume that is active in zones 1 - 6 |
| DSP\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD | Signal provides status of Phone, Call Ring or Radio Announcement volume that is active in zones 1 - 6 |
| PAC\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD | Signal provides status of Phone, Call Ring or Radio Announcement volume that is active in zones 1 - 6 |
| Volume\_Command\_TBD | Volume Command (Physical Touch) |
| ZoneLock\_Command\_TBD | Zone Lock Command (Physical Touch) |
| ZoneLockReq\_TBD | Internal Signal for Zone Lock Request |

Table 3‑8: List of Technical Signals

### Software Component Architecture

*Not supported by MagicDraw report generation.*

#### Description

*Not supported by MagicDraw report generation.*

## Function Deployment

### Deployment Variants

*Not supported by MagicDraw report generation.*

#### Deployment “Variant 1”

This deployment variant … <add some explanatory text here>

No description specified.

### Function Allocation

| Component | Technology Function Name | Logical Function Name |
| --- | --- | --- |
|
| DSP | Route Audio | * Route Audio |
| Change Volume | * Change Volume |
| Play Audio | * Play Audio |
| Check HMI Status | * Check HMI Status |
|  |
| Phoenix Audio Controller | Connect BT Audio | * Connect BT Audio |
| Change Volume | * Change Volume |
| Request Call | * Request Call |
| Check HMI Status | * Check HMI Status |
| Update HMI Status | * Update HMI Status |
|  |
| Phoenix Domain Controller | Request Audio Share Response | * Request Audio Share Response |
| Request Share | * Request Share |
| Request BT Status Change | * Request BT Status Change |
| Request Zone Lock Out Status Change | * Request Zone Lock Out Status Change |
| Request DND Status Change | * Request DND Status Change |
| Request Volume Change | * Request Volume Change |
| Request Source Change | * Request Source Change |
| Request Sound Mode Change | * Request Sound Mode Change |
| Request Call | * Request Call |
| Request CA Status Change | * Request CA Status Change |
| Request ICC Status Change ON/OFF | * Request ICC Status Change ON/OFF |
|  |

Table 3‑9: Function Allocation Table (Basic)

# Feature Implementation Requirements

## Functional Safety

### ASIL Decomposition of Technical Safety Requirements

Note: MySeatSpace is a QM rated feature. HARA is uploaded in VSEM (VDOC089720). No further functional safety required.

| **Input TSR** | <Provide the ID of the TSR which shall be decomposed. That TSR is given above> | |
| --- | --- | --- |
| **Decomposition Rationale** | <Give a reason why the decomposition was performed> | |
| **Method for Decomposition** | Choose a Method | |
| **TSR 1 after Decomposition** | **TSR ID** | <Provide the ID of the decomposed TSR> |
| **TSR Title** | <Provide the title of the decomposed TSR> |
| **ASIL** |  |
| **Rationale** | <Provide a reason and thought behind that particular requirement. Should include how the requirement is able to independently fulfill the needs of the parent requirement> |
| **Satisfied by** | <Provide an Technology Function, physical signal, or physical component satisfying the requirement. This element shall be independent of the element satisfied by the other half of the ASIL decomposition.> |
| **TSR 2 after Decomposition** | **TSR ID** | <Provide the ID of the decomposed TSR> |
| **TSR Title** | <Provide the title of the decomposed TSR> |
| **ASIL** |  |
| **Rationale** | <Provide a reason and thought behind that particular requirement. Should include how the requirement is able to independently fulfill the needs of the parent requirement> |
| **Satisfied by** | <Provide an Technology Function, physical signal, or physical component satisfying the requirement. This element shall be independent of the element satisfied by the other half of the ASIL decomposition.> |
| **TSR for Independence**  *Note: should consider commonly used input, output and processing*  *Note: additional row should be added if additional* *requirements for Independence are necessary* | **TSR ID** |  |
| **TSR Title** |  |
| **ASIL** |  |
| **Rationale** |  |

Table 5‑1: ASIL Decomposition Table

## Requirements on Components

### Phoenix Audio Controller

Phoenix Audio Controller

#### Technology Function -1637983635.jpg Connect BT Audio

MSS Function responsible for providing Initiate BT Audio Connection Status

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Connect BT Audio | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| BluetoothAudioSource\_TBD | BluetoothAudioSource :  BluetoothAudioSource\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Connect BT Audio

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Connect BT Audio | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| BluetoothAudioSource\_Connection\_TBD | BluetoothAudioSource\_Connection :  BluetoothAudioSource\_Connection\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Connect BT Audio

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Phone Calls 1

The PDC/PAC module shall allow users to stream their phone call to their sound zone with the SourceType and SourceTypeChannel signals.

Satisfied by:

* Functions:
  + Play Audio
  + Connect BT Audio
  + Request BT Status Change
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1362599733.jpg Change Volume

MSS Function responsible for Adjusting the Volume

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Change Volume | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Volume\_Cmd | Volume\_Cmd :  BLE\_ChangeVolume\_TBD | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Change Volume

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Change Volume | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  AutomotiveAudioReq | AutomotiveAudioReq :  BLE\_AutomotiveAudio \_Req\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Change Volume

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

MyKey 1.2

When the PDC recognizes the MyKey signal as active, the URC application shall prevent passengers from activating ICC.

Satisfied by:

* Functions:
  + Change Volume
  + Request Volume Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -269956858.jpg Request Call

MSS Function responsible for providing status of Driver/Passenger receiving phone call

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request Call | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  PhnCallSwtchZone2\_D\_Rq | PhnCallSwtchZone2\_D\_Rq :  PhnCallSwtchZone\_D\_Rq\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Request Call

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request Call | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  PhnCallZone\_D\_St | PhnCallZone\_D\_St :  PhnCallZone\_D\_St\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Request Call

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Phone Calls 1.8

When the VehicleAudioMode status signal updates to Zone Mode, the PDC shall keep any active PhnCallZone\_D\_St signals as the same status.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.12

When the PAC module receives the PhnCallZone\_D\_St as "No Call", all other "Handsfree" PhnCallZone\_D\_St signals shall remained unchanged.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.9

When the PDC has the PhnCallSwitchZone\_D\_Rq status as active, the SYNC HMI shall update to prevent transitions to Cabin Mode.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.6

When a passenger receives/takes a phone call, the PDC module shall only send the phone SourceType signal to the DSP if the VehicleAudioMode signal status is Zone Mode.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.1

When the PDC receives the PhnCallSwtchZone2\_D\_Rq signal from the PAC while the driver has an active phone call, the PDC shall send the PhnCallZone2\_D\_St signal as "Handsfree" to the PAC as long as the phone call is accepted.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.3

When the PAC module receives the "Stacked" SourceTypeStatus signal and the PDC module receives the "No Call" PhnCallZone\_D\_Rq signal for the same zone, the PAC module will continue playing the orignal unstacked source.

Satisfied by:

* Functions:
  + Request Call
  + Request Share

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.5

When there is an active signal for the PhnCallZone\_D\_St signal, the PAC module shall send the CaptAnnoucement\_D\_St and the InCarComm\_D\_St disabled signal to the PDC.

Satisfied by:

* Functions:
  + Request CA Status Change
  + Request Call
  + Request ICC Status Change ON/OFF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.4

When a user is sharing audio and the PDC receives the PhnCallSwitchZone request signal for this user, the PDC shall set the Audio\_Vol\_Level\_Zone signal to 0 for zones receiving the shared audio.

Satisfied by:

* Functions:
  + Play Audio
  + Request Call

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.10

When the PDC has the PhnCallSwitchZone\_D\_Rq status as active, the SYNC HMI shall update to prevent transitions to the "2 Zone Locked Configuration"

Satisfied by:

* Functions:
  + Request Call
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.3

When the driver receives/takes a phone call while the VehicleAudioMode signal is set to Cabin Mode, the Audio\_Vol\_Level signal shall be set to 0.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1

The PDC/PAC module shall allow users to stream their phone call to their sound zone with the SourceType and SourceTypeChannel signals.

Satisfied by:

* Functions:
  + Play Audio
  + Connect BT Audio
  + Request BT Status Change
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.7

When a passenger receives/takes a phone call while the VehicleAudioMode signal status is Cabin Mode, the PDC shall send the PhnCallZone\_D\_st signal to the PAC as "Handsfree"

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.2

When the PDC module receives the PhnCallSwtchZone request signal for seats 3-6 while there is an active PhnCallZone status "Privacy signal for seats 3-6, the PDC shall send the PhnCallZone status signal for the incoming call as "Handsfree" to the PAC module.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.11

When the PAC module has the PhnCallZone2\_D\_St stored as "Privacy" and the driver receives/takes a phone call, the PDC module shall send the "PhnCallZone2\_D\_st to the PAC module as "Handsfree".

Satisfied by:

* Functions:
  + Request Call
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.5

When the PAC module receives an "Active" PhnCallZone\_D\_St signal, the PAC module shall send the "temporarily disabled" InCarComm\_D\_St signal to the PDC module.

Satisfied by:

* Functions:
  + Request Call
  + Request ICC Status Change ON/OFF
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1170007873.jpg Check HMI Status

MSS Function responsible for checking the status of several signals or HMI Status for MySeatSpace

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Check HMI Status | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  CaptAnnoucement\_D\_Rq | CaptAnnoucement\_D\_Rq :  CaptAnnouncement\_D\_Rq\_ET | | |  |  |  |
| Review in model  InCarComm\_B\_Rq | InCarComm\_B\_Rq :  InCarComm\_B\_Rq\_ET | | |  |  |  |
| Review in model  PhnCallZone\_D\_St | PhnCallZone\_D\_St :  PhnCallZone\_D\_St\_ET | | |  |  |  |
| Review in model  VehicleAudioMode\_TBD | VehicleAudioMode\_TBD :  PAC\_VehicleAudioMode\_Rsp\_TBD\_ET | | |  |  |  |
| Review in model  SourceType\_TBD | SourceType\_TBD :  SourceType\_TBD\_ET | | |  |  |  |
| Review in model  SourceTypeStatus\_TBD | SourceTypeStatus\_TBD :  SourceTypeStatus\_TBD\_ET | | |  |  |  |
| Review in model  MixableZonePrompts\_TBD | MixableZonePrompts\_TBD :  MixableZonePromptsChannel\_TBD\_ET | | |  |  |  |
| Review in model  SourceTypeChannel\_TBD | SourceTypeChannel\_TBD :  SourceTypeChannel\_TBD\_ET | | |  |  |  |
| Review in model  MixableZonePrompts\_TBD | MixableZonePrompts\_TBD :  MixableZonePrompts\_TBD\_ET | | |  |  |  |
| Review in model  CallRing\_Vol\_Updated\_TBD | CallRing\_Vol\_Updated\_TBD :  CallRing\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Prompt\_Vol\_Updated\_TBD | Prompt\_Vol\_Updated\_TBD :  Prompt\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Prompt\_Vol\_Level\_TBD | Prompt\_Vol\_Level\_TBD :  Prompt\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  RA\_Vol\_Updated\_TBD | RA\_Vol\_Updated\_TBD :  RA\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Phone\_Vol\_Updated\_TBD\_ET | Phone\_Vol\_Updated\_TBD\_ET :  Phone\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Offset\_Vol\_Zone\_TBD | Offset\_Vol\_Zone\_TBD :  Offset\_Vol\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  Prompt\_Vol\_Level\_Zone\_TBD | Prompt\_Vol\_Level\_Zone\_TBD :  Prompt\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  Audio\_Vol\_Updated\_TBD | Audio\_Vol\_Updated\_TBD :  Audio\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  CallRing\_Vol\_Level\_TBD | CallRing\_Vol\_Level\_TBD :  CallRing\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  RA\_Vol\_Level\_TBD | RA\_Vol\_Level\_TBD :  RA\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  Phone\_Vol\_Level\_TBD | Phone\_Vol\_Level\_TBD :  Phone\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  Audio\_Vol\_Level\_TBD | Audio\_Vol\_Level\_TBD :  Audio\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  Offset\_Vol\_Zone\_Updated\_TBD | Offset\_Vol\_Zone\_Updated\_TBD :  Offset\_Vol\_Zone\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Prompt\_Vol\_Zone\_Updated\_TBD | Prompt\_Vol\_Zone\_Updated\_TBD :  Prompt\_Vol\_Zone\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  TempSource\_Vol\_Zone\_Updated\_TBD | TempSource\_Vol\_Zone\_Updated\_TBD :  TempSource\_Vol\_Zone\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  TempSource\_Vol\_Level\_Zone\_TBD\_ET | TempSource\_Vol\_Level\_Zone\_TBD\_ET :  TempSource\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  Audio\_Vol\_Zone\_Updated\_TBD | Audio\_Vol\_Zone\_Updated\_TBD :  Audio\_Vol\_Zone\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Audio\_Vol\_Level\_Zone\_TBD | Audio\_Vol\_Level\_Zone\_TBD :  Audio\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  DND\_Req | DND\_Req :  BLE\_DND.Rq\_ET | | |  |  |  |
| BLE\_Share\_Rq\_TBD | Share\_Rq :  BLE\_Share\_Rq\_ET | | |  |  |  |
| Review in model  ZoneLock\_Rq | ZoneLock\_Rq :  ZoneLockReq\_ET | | |  |  |  |
| Review in model  BT\_Req | BT\_Req :  BTConnectionReq\_ET | | |  |  |  |
| BluetoothAudioSource\_Connection\_TBD | BluetoothAudioSource\_Connection :  BluetoothAudioSource\_Connection\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Check HMI Status

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Check HMI Status | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  CaptAnnoucement\_D\_Stat | CaptAnnoucement\_D\_Stat :  CaptAnnouncement\_D\_St\_ET | | |  |  |  |
| Review in model  InCarComm\_D\_Stat | InCarComm\_D\_Stat :  InCarComm\_D\_St\_ET | | |  |  |  |
| Review in model  PAC\_VehicleAudioMode\_Rsp\_TBD | PAC\_VehicleAudioMode\_Rsp\_TBD :  PAC\_VehicleAudioMode\_Rsp\_TBD\_ET | | |  |  |  |
| Review in model  PAC\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD | PAC\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD :  PAC\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  PAC\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD | PAC\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD :  PAC\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  PAC\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD | PAC\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD :  PAC\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  DSP\_VolCntlr\_Audio\_Vol\_Level\_Zone | DSP\_VolCntlr\_Audio\_Vol\_Level\_Zone :  DSP\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  DSP\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD | DSP\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD :  DSP\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  DSP\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD | DSP\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD :  DSP\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  DSP\_VehicleAudioMode\_Rsp\_TBD | DSP\_VehicleAudioMode\_Rsp\_TBD :  DSP\_VehicleAudioMode\_Rsp\_TBD\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Check HMI Status

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Do Not Disturb 1.6

When the PDC module has an active DND status signal, the SYNC HMI shall update to prevent the driver from activating the "2 Zone Audio Share"

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.2

When the PAC module receives the active InCarComm\_D\_Rq signal, the PDC module shall make Voice Recognition inactive.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request ICC Status Change ON/OFF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MyKey 1

When the PDC recognizes the MyKey signal as active, the MSS feature functionality shall be reduced to limit driver distraction.

Satisfied by:

* Functions:
  + Check HMI Status
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.9

If there is an active signal for the "2 Zone Locked Configuration", the SYNC HMI and URC application shall update to prevent users from activating DND.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.5

When the PDC module recognizes that a zone does not have URC, the SYNC HMI shall update to allow the driver to activate/deactivate DND for a zone.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.3

When Voice Recognition is activated, the PAC module shall send the "temporarily disabled" InCarComm\_D\_St signal to the PDC module.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request ICC Status Change ON/OFF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.4

When the PDC module has an active DND status signal for a zone with URC, the SYNC HMI shall update to prevent the driver from activating/deactivating DND for the zone.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Captain's Announcement 1.4

When there is an phone call status recognized by the PDC module as Privacy or Handsfree, the SYNC HMI shall update to prevent the activation of CA.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request CA Status Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1092764201.jpg Update HMI Status

MSS Function responsible for Updating Signal or HMI Statuses related to MySeatSpace

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Update HMI Status | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  CaptAnnoucement\_D\_Stat | CaptAnnoucement\_D\_Stat :  CaptAnnouncement\_D\_St\_ET | | |  |  |  |
| Review in model  InCarComm\_D\_Stat | InCarComm\_D\_Stat :  InCarComm\_D\_St\_ET | | |  |  |  |
| Review in model  PAC\_VehicleAudioMode\_Rsp\_TBD | PAC\_VehicleAudioMode\_Rsp\_TBD :  PAC\_VehicleAudioMode\_Rsp\_TBD\_ET | | |  |  |  |
| Review in model  PAC\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD | PAC\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD :  PAC\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  PAC\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD | PAC\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD :  PAC\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  PAC\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD\_ET | PAC\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD\_ET :  PAC\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| BLE\_AudioShareResp\_Req\_TBD | AudioShareResp\_Req :  BLE\_AudioShareResp\_Req\_TBD | | |  |  |  |
| Review in model  DSP\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD | DSP\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD :  DSP\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  DSP\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD | DSP\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD :  DSP\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  DSP\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD | DSP\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD :  DSP\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  DSP\_VehicleAudioMode\_Rsp\_TBD | DSP\_VehicleAudioMode\_Rsp\_TBD :  DSP\_VehicleAudioMode\_Rsp\_TBD\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Update HMI Status

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Update HMI Status | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Captains Announcement\_ Status | Captains Announcement\_ Status :  Captains Announcement\_ Status\_ET | | |  |  |  |
| Review in model  In-Car Communication Status | In-Car Communication Status :  In-Car Communication Status\_ET | | |  |  |  |
| Review in model  MediashareRequest\_Feedback | MediashareRequest\_Feedback :  MediashareRequest\_Feedback\_ET | | |  |  |  |
| Review in model  Source Selection\_Feedback | Source Selection\_Feedback :  Source Selection\_Feedback\_ET | | |  |  |  |
| Review in model  Volume Control\_Feedback | Volume Control\_Feedback :  Volume Control\_Feedback\_ET | | |  |  |  |
| Review in model  ZoneLockOut\_Feedback | ZoneLockOut\_Feedback :  ZoneLockOut\_Feedback\_ET | | |  |  |  |
| Review in model  ZoneCabinMode\_Status | ZoneCabinMode\_Status :  Zone\_Cabin\_Mode\_Status\_ET | | |  |  |  |
| Review in model  DND\_Status | DND\_Status :  DND Status\_ET | | |  |  |  |
| Review in model  PhoneCall\_St | PhoneCall\_St : | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Update HMI Status

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Row to Row Communication 1.4

When the PDC module receives the "Active" CaptAnnoucement\_D\_St signal, the PAC module shall send the "temporarily disabled" InCarComm\_D\_St signal to the PDC module.

Satisfied by:

* Functions:
  + Request CA Status Change
  + Request ICC Status Change ON/OFF
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.6

When the PDC module has an active DND status signal, the SYNC HMI shall update to prevent the driver from activating the "2 Zone Audio Share"

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.7

When the PDC module receives the "Active" InCarComm\_D\_St from a URC activation, the SYNC HMI shall prompt the driver that ICC has been turned on.

Satisfied by:

* Functions:
  + Play Audio
  + Request ICC Status Change ON/OFF
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MyKey 1

When the PDC recognizes the MyKey signal as active, the MSS feature functionality shall be reduced to limit driver distraction.

Satisfied by:

* Functions:
  + Check HMI Status
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.8

When the PAC module receives a SourceType request signal from the passenger for the driver, the SYNC HMI shall prompt the driver to accept/deny the request.

Satisfied by:

* Functions:
  + Request Audio Share Response
  + Request Share
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.9

If there is an active signal for the "2 Zone Locked Configuration", the SYNC HMI and URC application shall update to prevent users from activating DND.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.6

When the PAC module receives a SourceType request signal from the passenger for the entire vehicle, the SYNC HMI shall prompt the driver to accept/deny the request.

Satisfied by:

* Functions:
  + Request Share
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.5

When the PDC module recognizes that a zone does not have URC, the SYNC HMI shall update to allow the driver to activate/deactivate DND for a zone.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.10

When the PDC has the PhnCallSwitchZone\_D\_Rq status as active, the SYNC HMI shall update to prevent transitions to the "2 Zone Locked Configuration"

Satisfied by:

* Functions:
  + Request Call
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.1

The PDC Module shall store the InCarComm\_D\_St signal when the HMIStatus signal updates.

Satisfied by:

* Functions:
  + Request ICC Status Change ON/OFF
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.11

When the PAC module has the PhnCallZone2\_D\_St stored as "Privacy" and the driver receives/takes a phone call, the PDC module shall send the "PhnCallZone2\_D\_st to the PAC module as "Handsfree".

Satisfied by:

* Functions:
  + Request Call
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.5

When the PAC module receives an "Active" PhnCallZone\_D\_St signal, the PAC module shall send the "temporarily disabled" InCarComm\_D\_St signal to the PDC module.

Satisfied by:

* Functions:
  + Request Call
  + Request ICC Status Change ON/OFF
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.4

When the PDC module has an active DND status signal for a zone with URC, the SYNC HMI shall update to prevent the driver from activating/deactivating DND for the zone.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.2

When the PAC module receives a SourceType request signal from the passenger for the driver, the SYNC HMI shall prompt the driver to accept/deny the request.

Satisfied by:

* Functions:
  + Request Audio Share Response
  + Request Share
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### Phoenix Domain Controller

Phoenix Domain Controller

#### Technology Function -1759168833.jpg Request Audio Share Response

MSS Function responsible for Requesting recipient's Response for Audio Share Requests (SYNC/URC)

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request Audio Share Response | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  AudioShareRespCommand | AudioShareRespCommand :  AudioShareResp\_Command\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Request Audio Share Response

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request Audio Share Response | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| BLE\_AudioShareResp\_Req\_TBD | AudioShareResp\_Req :  BLE\_AudioShareResp\_Req\_TBD | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Request Audio Share Response

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Shared Media 1.7

When the PAC module receives the "Zone Mode" VehicleAudioMode signal, the SYNC HMI shall prevent accept/deny prompts until the PAC receives a new VehicleAudioMode signal.

Satisfied by:

* Functions:
  + Request Audio Share Response
  + Request Share

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.8

When the PAC module receives a SourceType request signal from the passenger for the driver, the SYNC HMI shall prompt the driver to accept/deny the request.

Satisfied by:

* Functions:
  + Request Audio Share Response
  + Request Share
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Audio 1.1

URC shall provide indivudal controls for each zone and communicate zone updates to the PDC module via BLE.

Satisfied by:

* Functions:
  + Request Audio Share Response
  + Request Share
  + Request Source Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.2

When the PAC module receives a SourceType request signal from the passenger for the driver, the SYNC HMI shall prompt the driver to accept/deny the request.

Satisfied by:

* Functions:
  + Request Audio Share Response
  + Request Share
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1460694448.jpg Request Share

MSS Function responsible for sharing media from one source to other zones or cabin

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request Share | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  O | O :  Share\_Command\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Request Share

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request Share | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| BLE\_Share\_Rq\_TBD | Share\_Rq :  BLE\_Share\_Rq\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Request Share

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Shared Media 1.5

Only the SYNC HMI will provide an input to select AM/FM/XM/SDARS using the SourceType signal.

Satisfied by:

* Functions:
  + Request Share

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.7

When the PAC module receives the "Zone Mode" VehicleAudioMode signal, the SYNC HMI shall prevent accept/deny prompts until the PAC receives a new VehicleAudioMode signal.

Satisfied by:

* Functions:
  + Request Audio Share Response
  + Request Share

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.3

When the PAC module receives the "Stacked" SourceTypeStatus signal and the PDC module receives the "No Call" PhnCallZone\_D\_Rq signal for the same zone, the PAC module will continue playing the orignal unstacked source.

Satisfied by:

* Functions:
  + Request Call
  + Request Share

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1

URC shall allows users to stream media via the SourceType and SourceTypeChannel signals.

Satisfied by:

* Functions:
  + Request Share

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.8

When the PAC module receives a SourceType request signal from the passenger for the driver, the SYNC HMI shall prompt the driver to accept/deny the request.

Satisfied by:

* Functions:
  + Request Audio Share Response
  + Request Share
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Audio 1.1

URC shall provide indivudal controls for each zone and communicate zone updates to the PDC module via BLE.

Satisfied by:

* Functions:
  + Request Audio Share Response
  + Request Share
  + Request Source Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.6

When the PAC module receives a SourceType request signal from the passenger for the entire vehicle, the SYNC HMI shall prompt the driver to accept/deny the request.

Satisfied by:

* Functions:
  + Request Share
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Lockout 1.2

When the driver turns off MySeatSpace via the SYNC HMI, the URC application shall disable passenger inputs to share individual audio zones.

Satisfied by:

* Functions:
  + Request Share
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Lockout 1.1

When driver turns off MySeatSpace via the SYNC HMI, the PDC module shall set the VehicleAudioMode signal to "Cabin" until MySeatSpace is turned on again.

Satisfied by:

* Functions:
  + Request Share
  + Request Zone Lock Out Status Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.4

Only users in seats 1-4 will have input options via SYNC HMI/URC application to stream media using the SourceType signal.

Satisfied by:

* Functions:
  + Play Audio
  + Request Share

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Lockout 1

The SYNC HMI shall provide an input to lock out passenger inputs to activate/change the SourceType signal.

Satisfied by:

* Functions:
  + Request Share

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.1

The SYNC HMI and the URC application shall allow users to exit audio streams via the SourceType and SourceTypeChannel signals.

Satisfied by:

* Functions:
  + Play Audio
  + Request Share
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.2

When the PAC module receives a SourceType request signal from the passenger for the driver, the SYNC HMI shall prompt the driver to accept/deny the request.

Satisfied by:

* Functions:
  + Request Audio Share Response
  + Request Share
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -833644975.jpg Request BT Status Change

MSS Function responsible for providing Changing Bluetooth status when a phone connects or disconnects.

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request BT Status Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| BT\_Command\_TBD | BT\_Command :  BT\_Command\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Request BT Status Change

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request BT Status Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  BT\_Req | BT\_Req :  BTConnectionReq\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Request BT Status Change

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Phone Calls 1

The PDC/PAC module shall allow users to stream their phone call to their sound zone with the SourceType and SourceTypeChannel signals.

Satisfied by:

* Functions:
  + Play Audio
  + Connect BT Audio
  + Request BT Status Change
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1411458580.jpg Request Zone Lock Out Status Change

MSS Function responsible for Zone Lock Activation and Deactivation

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request Zone Lock Out Status Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| ZoneLock\_Command\_TBD | ZoneLock\_Command :  ZoneLock\_Command\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Request Zone Lock Out Status Change

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request Zone Lock Out Status Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  ZoneLock\_Rq | ZoneLock\_Rq :  ZoneLockReq\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Request Zone Lock Out Status Change

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

MSS Lockout 1.1

When driver turns off MySeatSpace via the SYNC HMI, the PDC module shall set the VehicleAudioMode signal to "Cabin" until MySeatSpace is turned on again.

Satisfied by:

* Functions:
  + Request Share
  + Request Zone Lock Out Status Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MyKey 1.1

When the PDC recognizes the MyKey signal as active, the PDC shall update the VehicleAudioMode signal to "Cabin" and keep it at this status for the duration of the driving session.

Satisfied by:

* Functions:
  + Request Zone Lock Out Status Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1440687070.jpg Request DND Status Change

MSS Function responsible for Do Not disturb activation and deactivation

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request DND Status Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| DND\_Command\_TBD | DND\_Command :  DND\_Command\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Request DND Status Change

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request DND Status Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  DND\_Req | DND\_Req :  BLE\_DND.Rq\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Request DND Status Change

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Do Not Disturb 1.1

When the PDC module has an active DND status signal, the DSP module will still direct CA audio to the zone.

Satisfied by:

* Functions:
  + Request CA Status Change
  + Request DND Status Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.6

When the PDC module has an active DND status signal, the SYNC HMI shall update to prevent the driver from activating the "2 Zone Audio Share"

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.7

The SYNC HMI shall allow the driver to activate the ZoneLockout request, even if there is an active DND status signal for a zone.

Satisfied by:

* Functions:
  + Request DND Status Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.9

If there is an active signal for the "2 Zone Locked Configuration", the SYNC HMI and URC application shall update to prevent users from activating DND.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.5

When the PDC module recognizes that a zone does not have URC, the SYNC HMI shall update to allow the driver to activate/deactivate DND for a zone.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.2

When the PDC module has an active DND status signal, the DSP module will still direct ICC audio to the zone.

Satisfied by:

* Functions:
  + Request DND Status Change
  + Request ICC Status Change ON/OFF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.10

When a zone activates the DND status signal while receiving audio from another zone, the PDC/PAC/DSP module will stop routing shared audio Source Types for the zone.

Satisfied by:

* Functions:
  + Request DND Status Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.11

When the PDC module has an inactive DND status signal for a zone, the SYNC HMI and URC application shall update to allow audio share requests to the zone.

Satisfied by:

* Functions:
  + Request DND Status Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.8

The SYNC HMI shall allow the driver to activate the URC Lockout Request, even if there is an active DND status signal for a zone.

Satisfied by:

* Functions:
  + Request DND Status Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.4

When the PDC module has an active DND status signal for a zone with URC, the SYNC HMI shall update to prevent the driver from activating/deactivating DND for the zone.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1

The URC application and the SYNC HMI shall provide an input for users to activate the DND status signal.

Satisfied by:

* Functions:
  + Request DND Status Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.3

When the PDC module has an active DND status signal, the DSP module will still direct alerts/chimes audio to the zone.

Satisfied by:

* Functions:
  + Request DND Status Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1069360206.jpg Request Volume Change

MSS Function responsible for providing the Request to Change Volume Status

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request Volume Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  VolumeCommand | VolumeCommand :  Volume\_Command\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Request Volume Change

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request Volume Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Audio\_Vol\_Level\_Zone\_TBD | Audio\_Vol\_Level\_Zone\_TBD :  Audio\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  Audio\_Vol\_Zone\_Updated\_TBD | Audio\_Vol\_Zone\_Updated\_TBD :  Audio\_Vol\_Zone\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  TempSource\_Vol\_Level\_Zone\_TBD\_ET | TempSource\_Vol\_Level\_Zone\_TBD\_ET :  TempSource\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  TempSource\_Vol\_Zone\_Updated\_TBD | TempSource\_Vol\_Zone\_Updated\_TBD :  TempSource\_Vol\_Zone\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Prompt\_Vol\_Zone\_Updated\_TBD | Prompt\_Vol\_Zone\_Updated\_TBD :  Prompt\_Vol\_Zone\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Offset\_Vol\_Zone\_Updated\_TBD | Offset\_Vol\_Zone\_Updated\_TBD :  Offset\_Vol\_Zone\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Audio\_Vol\_Level\_TBD | Audio\_Vol\_Level\_TBD :  Audio\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  Phone\_Vol\_Level\_TBD | Phone\_Vol\_Level\_TBD :  Phone\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  RA\_Vol\_Level\_TBD | RA\_Vol\_Level\_TBD :  RA\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  CallRing\_Vol\_Level\_TBD | CallRing\_Vol\_Level\_TBD :  CallRing\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  Audio\_Vol\_Updated\_TBD | Audio\_Vol\_Updated\_TBD :  Audio\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Prompt\_Vol\_Level\_Zone\_TBD | Prompt\_Vol\_Level\_Zone\_TBD :  Prompt\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  Offset\_Vol\_Zone\_TBD | Offset\_Vol\_Zone\_TBD :  Offset\_Vol\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  Phone\_Vol\_Updated\_TBD\_ET | Phone\_Vol\_Updated\_TBD\_ET :  Phone\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  RA\_Vol\_Updated\_TBD | RA\_Vol\_Updated\_TBD :  RA\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Prompt\_Vol\_Level\_TBD | Prompt\_Vol\_Level\_TBD :  Prompt\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  Prompt\_Vol\_Updated\_TBD | Prompt\_Vol\_Updated\_TBD :  Prompt\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  CallRing\_Vol\_Updated\_TBD | CallRing\_Vol\_Updated\_TBD :  CallRing\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Request Volume Change

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

MyKey 1.2

When the PDC recognizes the MyKey signal as active, the URC application shall prevent passengers from activating ICC.

Satisfied by:

* Functions:
  + Change Volume
  + Request Volume Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 2032765931.jpg Request Source Change

MSS Function responsible for providing Source Selected Status (AM/FM, BT Stream, Pandora, etc.)

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request Source Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Source\_Command\_TBD | Source\_Command :  Source\_Command\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Request Source Change

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request Source Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  SourceType\_TBD | SourceType\_TBD :  SourceType\_TBD\_ET | | |  |  |  |
| Review in model  SourceTypeChannel\_TBD | SourceTypeChannel\_TBD :  SourceTypeChannel\_TBD\_ET | | |  |  |  |
| Review in model  SourceTypeStatus\_TBD | SourceTypeStatus\_TBD :  SourceTypeStatus\_TBD\_ET | | |  |  |  |
| Review in model  MixableZonePrompts\_TBD | MixableZonePrompts\_TBD :  MixableZonePrompts\_TBD\_ET | | |  |  |  |
| Review in model  MixableZonePromptsChannel\_TBD | MixableZonePromptsChannel\_TBD :  MixableZonePromptsChannel\_TBD\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Request Source Change

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

MSS Audio 1.1

URC shall provide indivudal controls for each zone and communicate zone updates to the PDC module via BLE.

Satisfied by:

* Functions:
  + Request Audio Share Response
  + Request Share
  + Request Source Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Audio 1

The PDC/PAC shall allow users to stream audio with the SourceType and SourceTypeChannel signals.

Satisfied by:

* Functions:
  + Request Source Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -478661413.jpg Request Sound Mode Change

MSS Function responsible for Changing the Sound Modes in the Vehicle

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request Sound Mode Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| SoundMode\_Command\_TBD | SoundMode\_Command :  SoundMode\_Command\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Request Sound Mode Change

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request Sound Mode Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  VehicleAudioMode\_TBD | VehicleAudioMode\_TBD :  PAC\_VehicleAudioMode\_Rsp\_TBD\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Request Sound Mode Change

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Zone Transition 1.4

When there is an phone call status recognized by the PDC module as Privacy or Handsfree, the PDC module will prevent the VehicleAudioMode signal from changing encoding types.

Satisfied by:

* Functions:
  + Request Sound Mode Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Zone Transition 1.2

When cabin mode is activated, the PDC shall send the VehicleAudioMode signal to the DSP and PAC modules to play audio in the cabin speakers.

Satisfied by:

* Functions:
  + Request Sound Mode Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Zone Transition 1

The PDC shall send the VehicleAudioMode signal to the DSP, PAC, and RACM to switch between Zone Mode and Cabin Mode.

Satisfied by:

* Functions:
  + Request Sound Mode Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Zone Transition 1.1

When zone mode is activated, the PDC shall send the VehicleAudioMode signal to the DSP and PAC modules to play audio in the zonal speakers.

Satisfied by:

* Functions:
  + Request Sound Mode Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Zone Transition 1.3

When the "HMI\_HMIMode\_St" signal is active, PDC shall send the VehicleAudioMode signal as Cabin mode to the DSP, PAC, and RACM.

Satisfied by:

* Functions:
  + Play Audio
  + Request Sound Mode Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -269956858.jpg Request Call

MSS Function responsible for providing status of Driver/Passenger receiving phone call

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request Call | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  PhnCallSwtchZone2\_D\_Rq | PhnCallSwtchZone2\_D\_Rq :  PhnCallSwtchZone\_D\_Rq\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Request Call

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request Call | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  PhnCallZone\_D\_St | PhnCallZone\_D\_St :  PhnCallZone\_D\_St\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Request Call

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Phone Calls 1.8

When the VehicleAudioMode status signal updates to Zone Mode, the PDC shall keep any active PhnCallZone\_D\_St signals as the same status.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.12

When the PAC module receives the PhnCallZone\_D\_St as "No Call", all other "Handsfree" PhnCallZone\_D\_St signals shall remained unchanged.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.9

When the PDC has the PhnCallSwitchZone\_D\_Rq status as active, the SYNC HMI shall update to prevent transitions to Cabin Mode.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.6

When a passenger receives/takes a phone call, the PDC module shall only send the phone SourceType signal to the DSP if the VehicleAudioMode signal status is Zone Mode.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.1

When the PDC receives the PhnCallSwtchZone2\_D\_Rq signal from the PAC while the driver has an active phone call, the PDC shall send the PhnCallZone2\_D\_St signal as "Handsfree" to the PAC as long as the phone call is accepted.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.3

When the PAC module receives the "Stacked" SourceTypeStatus signal and the PDC module receives the "No Call" PhnCallZone\_D\_Rq signal for the same zone, the PAC module will continue playing the orignal unstacked source.

Satisfied by:

* Functions:
  + Request Call
  + Request Share

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.5

When there is an active signal for the PhnCallZone\_D\_St signal, the PAC module shall send the CaptAnnoucement\_D\_St and the InCarComm\_D\_St disabled signal to the PDC.

Satisfied by:

* Functions:
  + Request CA Status Change
  + Request Call
  + Request ICC Status Change ON/OFF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.4

When a user is sharing audio and the PDC receives the PhnCallSwitchZone request signal for this user, the PDC shall set the Audio\_Vol\_Level\_Zone signal to 0 for zones receiving the shared audio.

Satisfied by:

* Functions:
  + Play Audio
  + Request Call

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.10

When the PDC has the PhnCallSwitchZone\_D\_Rq status as active, the SYNC HMI shall update to prevent transitions to the "2 Zone Locked Configuration"

Satisfied by:

* Functions:
  + Request Call
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.3

When the driver receives/takes a phone call while the VehicleAudioMode signal is set to Cabin Mode, the Audio\_Vol\_Level signal shall be set to 0.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1

The PDC/PAC module shall allow users to stream their phone call to their sound zone with the SourceType and SourceTypeChannel signals.

Satisfied by:

* Functions:
  + Play Audio
  + Connect BT Audio
  + Request BT Status Change
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.7

When a passenger receives/takes a phone call while the VehicleAudioMode signal status is Cabin Mode, the PDC shall send the PhnCallZone\_D\_st signal to the PAC as "Handsfree"

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.2

When the PDC module receives the PhnCallSwtchZone request signal for seats 3-6 while there is an active PhnCallZone status "Privacy signal for seats 3-6, the PDC shall send the PhnCallZone status signal for the incoming call as "Handsfree" to the PAC module.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.11

When the PAC module has the PhnCallZone2\_D\_St stored as "Privacy" and the driver receives/takes a phone call, the PDC module shall send the "PhnCallZone2\_D\_st to the PAC module as "Handsfree".

Satisfied by:

* Functions:
  + Request Call
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.5

When the PAC module receives an "Active" PhnCallZone\_D\_St signal, the PAC module shall send the "temporarily disabled" InCarComm\_D\_St signal to the PDC module.

Satisfied by:

* Functions:
  + Request Call
  + Request ICC Status Change ON/OFF
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1816921132.jpg Request CA Status Change

MSS Function responsible for providing Captain's Announcement activate and deactivate status

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request CA Status Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| CA\_Command\_TBD | CA\_Command :  CA\_Command\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Request CA Status Change

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request CA Status Change | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  CaptAnnoucement\_D\_Rq | CaptAnnoucement\_D\_Rq :  CaptAnnouncement\_D\_Rq\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Request CA Status Change

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Captain's Announcement 1.3

When the PDC module receives the CaptAnnounce\_D\_St signal status as "Active", the DSP module will direct CA audio to the second and third row speakers only.

Satisfied by:

* Functions:
  + Play Audio
  + Request CA Status Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.1

When the PDC module has an active DND status signal, the DSP module will still direct CA audio to the zone.

Satisfied by:

* Functions:
  + Request CA Status Change
  + Request DND Status Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.4

When the PDC module receives the "Active" CaptAnnoucement\_D\_St signal, the PAC module shall send the "temporarily disabled" InCarComm\_D\_St signal to the PDC module.

Satisfied by:

* Functions:
  + Request CA Status Change
  + Request ICC Status Change ON/OFF
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Captain’s Announcement 1

The SYNC screen shall provide an input for the driver and front passenger to activate CA with the Capt\_Annoucement\_Rq signal.

Satisfied by:

* Functions:
  + Request CA Status Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.5

When there is an active signal for the PhnCallZone\_D\_St signal, the PAC module shall send the CaptAnnoucement\_D\_St and the InCarComm\_D\_St disabled signal to the PDC.

Satisfied by:

* Functions:
  + Request CA Status Change
  + Request Call
  + Request ICC Status Change ON/OFF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Captain's Announcement 1.2

When the PDC module receives the CaptAnnounce\_D\_St signal status as "Active", a beep shall play for the entire cabin.

Satisfied by:

* Functions:
  + Play Audio
  + Request CA Status Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Captain's Announcement 1.1

When the PDC module receives the CaptAnnounce\_D\_St signal status as "Active", the DSP module will mute all media throughout the vehicle.

Satisfied by:

* Functions:
  + Request CA Status Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Captain's Announcement 1.4

When there is an phone call status recognized by the PDC module as Privacy or Handsfree, the SYNC HMI shall update to prevent the activation of CA.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request CA Status Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1291327920.jpg Request ICC Status Change ON/OFF

MSS Function responsible for In-Car Communication activation and deactivation

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request ICC Status Change ON/OFF | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| ICC\_Command\_TBD | ICC\_Command :  ICC\_Command\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Request ICC Status Change ON/OFF

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request ICC Status Change ON/OFF | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  InCarComm\_B\_Rq | InCarComm\_B\_Rq :  InCarComm\_B\_Rq\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Request ICC Status Change ON/OFF

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Row to Row Communication 1.4

When the PDC module receives the "Active" CaptAnnoucement\_D\_St signal, the PAC module shall send the "temporarily disabled" InCarComm\_D\_St signal to the PDC module.

Satisfied by:

* Functions:
  + Request CA Status Change
  + Request ICC Status Change ON/OFF
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.2

When the PAC module receives the active InCarComm\_D\_Rq signal, the PDC module shall make Voice Recognition inactive.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request ICC Status Change ON/OFF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.7

When the PDC module receives the "Active" InCarComm\_D\_St from a URC activation, the SYNC HMI shall prompt the driver that ICC has been turned on.

Satisfied by:

* Functions:
  + Play Audio
  + Request ICC Status Change ON/OFF
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.5

When there is an active signal for the PhnCallZone\_D\_St signal, the PAC module shall send the CaptAnnoucement\_D\_St and the InCarComm\_D\_St disabled signal to the PDC.

Satisfied by:

* Functions:
  + Request CA Status Change
  + Request Call
  + Request ICC Status Change ON/OFF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.2

When the PDC module has an active DND status signal, the DSP module will still direct ICC audio to the zone.

Satisfied by:

* Functions:
  + Request DND Status Change
  + Request ICC Status Change ON/OFF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.3

When Voice Recognition is activated, the PAC module shall send the "temporarily disabled" InCarComm\_D\_St signal to the PDC module.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request ICC Status Change ON/OFF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1

The SYNC HMI and the URC application shall allow users to activate ICC.

Satisfied by:

* Functions:
  + Request ICC Status Change ON/OFF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.1

The PDC Module shall store the InCarComm\_D\_St signal when the HMIStatus signal updates.

Satisfied by:

* Functions:
  + Request ICC Status Change ON/OFF
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.5

When the PAC module receives an "Active" PhnCallZone\_D\_St signal, the PAC module shall send the "temporarily disabled" InCarComm\_D\_St signal to the PDC module.

Satisfied by:

* Functions:
  + Request Call
  + Request ICC Status Change ON/OFF
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.6

The DSP module shall direct ICC audio to the first and third rows.

Satisfied by:

* Functions:
  + Request ICC Status Change ON/OFF
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### DSP

DSP

#### Technology Function 1017114613.jpg Route Audio

MSS Function responsible for Routing Media to specific speakers/seats

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Route Audio | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  AutomotiveAudioReq | AutomotiveAudioReq :  BLE\_AutomotiveAudio \_Req\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Route Audio

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Route Audio | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  AutomotiveAudioReq | AutomotiveAudioReq :  BLE\_AutomotiveAudio \_Req\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Route Audio

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Captain's Announcement 1.3

When the PDC module receives the CaptAnnounce\_D\_St signal status as "Active", the DSP module will direct CA audio to the second and third row speakers only.

Satisfied by:

* Functions:
  + Play Audio
  + Request CA Status Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Navigation Prompts 1.1

The PDC module shall lower the Audio\_Vol\_Level\_Zone signal when Navigation Prompts is directed to play for the driver zone.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Audio 1.4

The PDC module shall match the values of the Audio\_Vol\_Level\_Zone and Audio\_Vol\_Level\_Zone\_Updated signals for Seat 3 and 5, and Seat 4 and 6 respectively before sending the Signal to the PAC/DSP.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.8

When the VehicleAudioMode status signal updates to Zone Mode, the PDC shall keep any active PhnCallZone\_D\_St signals as the same status.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Audio 1.2

When a user activates the Mute status signal, DSP shall only set the Audio\_Vol\_Level\_Zone signal to 0 for the zone and make no changes to any other volume level signal.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.12

When the PAC module receives the PhnCallZone\_D\_St as "No Call", all other "Handsfree" PhnCallZone\_D\_St signals shall remained unchanged.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.9

When the PDC has the PhnCallSwitchZone\_D\_Rq status as active, the SYNC HMI shall update to prevent transitions to Cabin Mode.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.6

When a passenger receives/takes a phone call, the PDC module shall only send the phone SourceType signal to the DSP if the VehicleAudioMode signal status is Zone Mode.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Zone Transition 1.2

When cabin mode is activated, the PDC shall send the VehicleAudioMode signal to the DSP and PAC modules to play audio in the cabin speakers.

Satisfied by:

* Functions:
  + Request Sound Mode Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.1

When the PDC receives the PhnCallSwtchZone2\_D\_Rq signal from the PAC while the driver has an active phone call, the PDC shall send the PhnCallZone2\_D\_St signal as "Handsfree" to the PAC as long as the phone call is accepted.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Audio 1.5

The PDC module shall set the value Audio\_Vol\_Level\_Zone and Audio\_Vol\_Level\_Zone\_Updated signals to 0 for Seat 3 and 5, and Seat 4 and 6 respectively before sending the Signal to the PAC/DSP.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Lockout 1.2

When the driver turns off MySeatSpace via the SYNC HMI, the URC application shall disable passenger inputs to share individual audio zones.

Satisfied by:

* Functions:
  + Request Share
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Audio 1.6

The RACM module shall provide an input for passengers to mute audio.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Traffic Announcements 1

The DSP module shall direct TA audio to the driver and any passenger listening to the driver's source.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Navigation Prompts 1

The PDC module shall send the SourceType signal to the DSP module to send Navigation Prompt audio to the driver only.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.3

When the driver receives/takes a phone call while the VehicleAudioMode signal is set to Cabin Mode, the Audio\_Vol\_Level signal shall be set to 0.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1

The PDC/PAC module shall allow users to stream their phone call to their sound zone with the SourceType and SourceTypeChannel signals.

Satisfied by:

* Functions:
  + Play Audio
  + Connect BT Audio
  + Request BT Status Change
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.7

When a passenger receives/takes a phone call while the VehicleAudioMode signal status is Cabin Mode, the PDC shall send the PhnCallZone\_D\_st signal to the PAC as "Handsfree"

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.2

When the PDC module receives the PhnCallSwtchZone request signal for seats 3-6 while there is an active PhnCallZone status "Privacy signal for seats 3-6, the PDC shall send the PhnCallZone status signal for the incoming call as "Handsfree" to the PAC module.

Satisfied by:

* Functions:
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Traffic Announcements 1.1

The DSP module shall duck/pause media for zones that TA audio plays for.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Zone Transition 1.1

When zone mode is activated, the PDC shall send the VehicleAudioMode signal to the DSP and PAC modules to play audio in the zonal speakers.

Satisfied by:

* Functions:
  + Request Sound Mode Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Lockout 1.1

When driver turns off MySeatSpace via the SYNC HMI, the PDC module shall set the VehicleAudioMode signal to "Cabin" until MySeatSpace is turned on again.

Satisfied by:

* Functions:
  + Request Share
  + Request Zone Lock Out Status Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Traffic Announcements 1.3

For passengers receiving TA audio, the PDC module shall send the Prompt\_Audio\_Vol\_Level\_Zone signal at the same level as the Audio\_Vol\_Level\_Zone signal.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Audio 1.3

When a user activates the Mute status signal, DSP shall keep the Prompt\_Vol\_Level\_Zone signal at the same value.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Captain's Announcement 1.4

When there is an phone call status recognized by the PDC module as Privacy or Handsfree, the SYNC HMI shall update to prevent the activation of CA.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request CA Status Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.1

The SYNC HMI and the URC application shall allow users to exit audio streams via the SourceType and SourceTypeChannel signals.

Satisfied by:

* Functions:
  + Play Audio
  + Request Share
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Traffic Announcements 1.2

The PDC module shall send the Prompt\_Audio\_Vol\_Level\_Zone1 signal at an increased level from the Audio\_Vol\_Level\_Zone1 signal as determined by the Traffic Announcement feature specification when TA is activated.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.6

The DSP module shall direct ICC audio to the first and third rows.

Satisfied by:

* Functions:
  + Request ICC Status Change ON/OFF
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1362599733.jpg Change Volume

MSS Function responsible for Adjusting the Volume

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Change Volume | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Volume\_Cmd | Volume\_Cmd :  BLE\_ChangeVolume\_TBD | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Change Volume

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Change Volume | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  AutomotiveAudioReq | AutomotiveAudioReq :  BLE\_AutomotiveAudio \_Req\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Change Volume

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

MyKey 1.2

When the PDC recognizes the MyKey signal as active, the URC application shall prevent passengers from activating ICC.

Satisfied by:

* Functions:
  + Change Volume
  + Request Volume Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 2085305104.jpg Play Audio

MSS Function responsible for Requesting to Play Audio and designate Audio Type

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Play Audio | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  AutomotiveAudioReq | AutomotiveAudioReq :  BLE\_AutomotiveAudio \_Req\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Play Audio

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Play Audio | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  PlayRq | PlayRq :  PlayAudio\_Req\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Play Audio

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Captain's Announcement 1.3

When the PDC module receives the CaptAnnounce\_D\_St signal status as "Active", the DSP module will direct CA audio to the second and third row speakers only.

Satisfied by:

* Functions:
  + Play Audio
  + Request CA Status Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Navigation Prompts 1.1

The PDC module shall lower the Audio\_Vol\_Level\_Zone signal when Navigation Prompts is directed to play for the driver zone.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Audio 1.4

The PDC module shall match the values of the Audio\_Vol\_Level\_Zone and Audio\_Vol\_Level\_Zone\_Updated signals for Seat 3 and 5, and Seat 4 and 6 respectively before sending the Signal to the PAC/DSP.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Audio 1.2

When a user activates the Mute status signal, DSP shall only set the Audio\_Vol\_Level\_Zone signal to 0 for the zone and make no changes to any other volume level signal.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Audio 1.5

The PDC module shall set the value Audio\_Vol\_Level\_Zone and Audio\_Vol\_Level\_Zone\_Updated signals to 0 for Seat 3 and 5, and Seat 4 and 6 respectively before sending the Signal to the PAC/DSP.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.7

When the PDC module receives the "Active" InCarComm\_D\_St from a URC activation, the SYNC HMI shall prompt the driver that ICC has been turned on.

Satisfied by:

* Functions:
  + Play Audio
  + Request ICC Status Change ON/OFF
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Captain's Announcement 1.2

When the PDC module receives the CaptAnnounce\_D\_St signal status as "Active", a beep shall play for the entire cabin.

Satisfied by:

* Functions:
  + Play Audio
  + Request CA Status Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Audio 1.6

The RACM module shall provide an input for passengers to mute audio.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Traffic Announcements 1

The DSP module shall direct TA audio to the driver and any passenger listening to the driver's source.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Navigation Prompts 1

The PDC module shall send the SourceType signal to the DSP module to send Navigation Prompt audio to the driver only.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1.4

When a user is sharing audio and the PDC receives the PhnCallSwitchZone request signal for this user, the PDC shall set the Audio\_Vol\_Level\_Zone signal to 0 for zones receiving the shared audio.

Satisfied by:

* Functions:
  + Play Audio
  + Request Call

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Phone Calls 1

The PDC/PAC module shall allow users to stream their phone call to their sound zone with the SourceType and SourceTypeChannel signals.

Satisfied by:

* Functions:
  + Play Audio
  + Connect BT Audio
  + Request BT Status Change
  + Request Call
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Traffic Announcements 1.1

The DSP module shall duck/pause media for zones that TA audio plays for.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Zone Transition 1.3

When the "HMI\_HMIMode\_St" signal is active, PDC shall send the VehicleAudioMode signal as Cabin mode to the DSP, PAC, and RACM.

Satisfied by:

* Functions:
  + Play Audio
  + Request Sound Mode Change

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.4

Only users in seats 1-4 will have input options via SYNC HMI/URC application to stream media using the SourceType signal.

Satisfied by:

* Functions:
  + Play Audio
  + Request Share

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Traffic Announcements 1.3

For passengers receiving TA audio, the PDC module shall send the Prompt\_Audio\_Vol\_Level\_Zone signal at the same level as the Audio\_Vol\_Level\_Zone signal.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MSS Audio 1.3

When a user activates the Mute status signal, DSP shall keep the Prompt\_Vol\_Level\_Zone signal at the same value.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Shared Media 1.1

The SYNC HMI and the URC application shall allow users to exit audio streams via the SourceType and SourceTypeChannel signals.

Satisfied by:

* Functions:
  + Play Audio
  + Request Share
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Traffic Announcements 1.2

The PDC module shall send the Prompt\_Audio\_Vol\_Level\_Zone1 signal at an increased level from the Audio\_Vol\_Level\_Zone1 signal as determined by the Traffic Announcement feature specification when TA is activated.

Satisfied by:

* Functions:
  + Play Audio
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1170007873.jpg Check HMI Status

MSS Function responsible for checking the status of several signals or HMI Status for MySeatSpace

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Check HMI Status | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  CaptAnnoucement\_D\_Rq | CaptAnnoucement\_D\_Rq :  CaptAnnouncement\_D\_Rq\_ET | | |  |  |  |
| Review in model  InCarComm\_B\_Rq | InCarComm\_B\_Rq :  InCarComm\_B\_Rq\_ET | | |  |  |  |
| Review in model  PhnCallZone\_D\_St | PhnCallZone\_D\_St :  PhnCallZone\_D\_St\_ET | | |  |  |  |
| Review in model  VehicleAudioMode\_TBD | VehicleAudioMode\_TBD :  PAC\_VehicleAudioMode\_Rsp\_TBD\_ET | | |  |  |  |
| Review in model  SourceType\_TBD | SourceType\_TBD :  SourceType\_TBD\_ET | | |  |  |  |
| Review in model  SourceTypeStatus\_TBD | SourceTypeStatus\_TBD :  SourceTypeStatus\_TBD\_ET | | |  |  |  |
| Review in model  MixableZonePrompts\_TBD | MixableZonePrompts\_TBD :  MixableZonePromptsChannel\_TBD\_ET | | |  |  |  |
| Review in model  SourceTypeChannel\_TBD | SourceTypeChannel\_TBD :  SourceTypeChannel\_TBD\_ET | | |  |  |  |
| Review in model  MixableZonePrompts\_TBD | MixableZonePrompts\_TBD :  MixableZonePrompts\_TBD\_ET | | |  |  |  |
| Review in model  CallRing\_Vol\_Updated\_TBD | CallRing\_Vol\_Updated\_TBD :  CallRing\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Prompt\_Vol\_Updated\_TBD | Prompt\_Vol\_Updated\_TBD :  Prompt\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Prompt\_Vol\_Level\_TBD | Prompt\_Vol\_Level\_TBD :  Prompt\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  RA\_Vol\_Updated\_TBD | RA\_Vol\_Updated\_TBD :  RA\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Phone\_Vol\_Updated\_TBD\_ET | Phone\_Vol\_Updated\_TBD\_ET :  Phone\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Offset\_Vol\_Zone\_TBD | Offset\_Vol\_Zone\_TBD :  Offset\_Vol\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  Prompt\_Vol\_Level\_Zone\_TBD | Prompt\_Vol\_Level\_Zone\_TBD :  Prompt\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  Audio\_Vol\_Updated\_TBD | Audio\_Vol\_Updated\_TBD :  Audio\_Vol\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  CallRing\_Vol\_Level\_TBD | CallRing\_Vol\_Level\_TBD :  CallRing\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  RA\_Vol\_Level\_TBD | RA\_Vol\_Level\_TBD :  RA\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  Phone\_Vol\_Level\_TBD | Phone\_Vol\_Level\_TBD :  Phone\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  Audio\_Vol\_Level\_TBD | Audio\_Vol\_Level\_TBD :  Audio\_Vol\_Level\_TBD\_ET | | |  |  |  |
| Review in model  Offset\_Vol\_Zone\_Updated\_TBD | Offset\_Vol\_Zone\_Updated\_TBD :  Offset\_Vol\_Zone\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Prompt\_Vol\_Zone\_Updated\_TBD | Prompt\_Vol\_Zone\_Updated\_TBD :  Prompt\_Vol\_Zone\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  TempSource\_Vol\_Zone\_Updated\_TBD | TempSource\_Vol\_Zone\_Updated\_TBD :  TempSource\_Vol\_Zone\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  TempSource\_Vol\_Level\_Zone\_TBD\_ET | TempSource\_Vol\_Level\_Zone\_TBD\_ET :  TempSource\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  Audio\_Vol\_Zone\_Updated\_TBD | Audio\_Vol\_Zone\_Updated\_TBD :  Audio\_Vol\_Zone\_Updated\_TBD\_ET | | |  |  |  |
| Review in model  Audio\_Vol\_Level\_Zone\_TBD | Audio\_Vol\_Level\_Zone\_TBD :  Audio\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  DND\_Req | DND\_Req :  BLE\_DND.Rq\_ET | | |  |  |  |
| BLE\_Share\_Rq\_TBD | Share\_Rq :  BLE\_Share\_Rq\_ET | | |  |  |  |
| Review in model  ZoneLock\_Rq | ZoneLock\_Rq :  ZoneLockReq\_ET | | |  |  |  |
| Review in model  BT\_Req | BT\_Req :  BTConnectionReq\_ET | | |  |  |  |
| BluetoothAudioSource\_Connection\_TBD | BluetoothAudioSource\_Connection :  BluetoothAudioSource\_Connection\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Check HMI Status

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Check HMI Status | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  CaptAnnoucement\_D\_Stat | CaptAnnoucement\_D\_Stat :  CaptAnnouncement\_D\_St\_ET | | |  |  |  |
| Review in model  InCarComm\_D\_Stat | InCarComm\_D\_Stat :  InCarComm\_D\_St\_ET | | |  |  |  |
| Review in model  PAC\_VehicleAudioMode\_Rsp\_TBD | PAC\_VehicleAudioMode\_Rsp\_TBD :  PAC\_VehicleAudioMode\_Rsp\_TBD\_ET | | |  |  |  |
| Review in model  PAC\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD | PAC\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD :  PAC\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  PAC\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD | PAC\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD :  PAC\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  PAC\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD | PAC\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD :  PAC\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  DSP\_VolCntlr\_Audio\_Vol\_Level\_Zone | DSP\_VolCntlr\_Audio\_Vol\_Level\_Zone :  DSP\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  DSP\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD | DSP\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD :  DSP\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  DSP\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD | DSP\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD :  DSP\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD\_ET | | |  |  |  |
| Review in model  DSP\_VehicleAudioMode\_Rsp\_TBD | DSP\_VehicleAudioMode\_Rsp\_TBD :  DSP\_VehicleAudioMode\_Rsp\_TBD\_ET | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Check HMI Status

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑2: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

###### Component Specific Requirements

Do Not Disturb 1.6

When the PDC module has an active DND status signal, the SYNC HMI shall update to prevent the driver from activating the "2 Zone Audio Share"

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.2

When the PAC module receives the active InCarComm\_D\_Rq signal, the PDC module shall make Voice Recognition inactive.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request ICC Status Change ON/OFF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

MyKey 1

When the PDC recognizes the MyKey signal as active, the MSS feature functionality shall be reduced to limit driver distraction.

Satisfied by:

* Functions:
  + Check HMI Status
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.9

If there is an active signal for the "2 Zone Locked Configuration", the SYNC HMI and URC application shall update to prevent users from activating DND.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.5

When the PDC module recognizes that a zone does not have URC, the SYNC HMI shall update to allow the driver to activate/deactivate DND for a zone.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Row to Row Communication 1.3

When Voice Recognition is activated, the PAC module shall send the "temporarily disabled" InCarComm\_D\_St signal to the PDC module.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request ICC Status Change ON/OFF

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Do Not Disturb 1.4

When the PDC module has an active DND status signal for a zone with URC, the SYNC HMI shall update to prevent the driver from activating/deactivating DND for the zone.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request DND Status Change
  + Update HMI Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

Captain's Announcement 1.4

When there is an phone call status recognized by the PDC module as Privacy or Handsfree, the SYNC HMI shall update to prevent the activation of CA.

Satisfied by:

* Functions:
  + Check HMI Status
  + Request CA Status Change
  + Route Audio

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

## Requirements on Connections

### Networks

#### “CAN Bus xxx”

##### Protocol Requirements

##### Electrical Requirements

#### “LIN Bus xxx”

##### Protocol Requirements

###### Schedule Table

##### Electrical Requirements

#### “Ethernet xxx”

### HW I/Os

#### “HW I/O xxx”

# Open Concerns

| ID | Concern Description | e-Tracker Reference | Status | Solution |
| --- | --- | --- | --- | --- |
| 1 | How to fully capture Wake/Sleep requirements. Currently we have a mismatch between what is captured in old EuCD SRD requirements and what is captured in AIS Publisher Interfaces (Publishing Network Sleep Inhibitor, Network Wake Up) |  | Open | Extend AIS attributes? |
| 2 | Clarify how to export Message list entries from CMDB in VSEM |  | Open |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |

Table 6‑1: Open Concerns

# Revision History

No Revision History found.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Revision | Date | Description | Approved by | Responsible |
| A |  | Initial version |  | Jbaden1 |
|  |  |  |  |  |

## Template Revisions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Version | Rev. | Date | Description | Responsible |
| 0 | 2 | 2015-08-05 | * TOC corrected * Document Properties adapted to match needs of VBA macros | Awegman1 |
| 1 | 0 | 2015-11-16 | * Revision History moved to chapter 7 * Table-Styles removed | Awegman1 |
| 1 | 1 | 2016-03-02 | * Rework according to PCL example | Jbaden1 |
| 1 | 2 | 2016-03-22 | * V1.3: Footer formating corrected (Issue 19) * “Constraints” chapter renamed to “Input Requirements” (Issue 20) | Jbaden1 |
| 1 | 3 | 2016-04-20 | * Broken Wiki links repaired | Jbaden1 |
| 2 | 0 | 2016-05-23 | * Prepared for Specification\_Macros.dotm v2.0 * Additional explanations added to ch. 2.2 “Input Requirements” (ARL and SDS requirements often go here) | Jbaden1 |
| 2 | 1 | 2016-07-08 | * Template version added to footer | Jbaden1 |
| 2 | 2 | 2016-07-15 | * Sample SysML diagrams added * Data Dictionary reworked * Alignment with relevant sections in SRD templated | Jbaden1 |
| 3 | 0 | 2016-09-05 | * Lessons learned from IPRB incorporated | Jbaden1 |
| 4 | 0 | 2016-09-27 | * Alignment with QPIP Feature Function Ownership workstream. Platform Spec renamed to Feature Implementation Spec | Jbaden1 |
| 4 | 1 | 2016-11-04 | * Chapters “Purpose” and “Scope” reworked. | Jbaden1 |
| 4 | 1 | 2016-11-10 | * Subsection for “Logical Service Interfaces” added. | Jbaden1 |
| 5 | 0 | 2017-01-13 | * Meta data updated for specification macros, version 3.1 * SW Unit chapter removed for the time being * Green boxes added for user hints | Jbaden1 |
| 5 | 1 | 2017-01-18 | * Minor editorial changes (e.g. hyperlinks highlighted in comments) | Jbaden1 |
| 5 | 1b | 2017-01-20 | * Some editorial corrections * Substructure of old Network Communication (now Connections) moved to Requirements on Connections | Jbaden1 |
| 6 | 0 | 2018-07-24 | * CR53: * Add new cover sheet * Add disclaimer section * Add the following meta-data to the doc properties for the the new cover sheet   + DocGis1ItemNumber   + DocGis2Classification   + DocType   + DocStatus   + DocIssueDate   + DocReleaseDate * CR63: Update FuSa sharepoint references in templates | Jbaden1 |
| 6 | 0 | 2018-08-06 | * CR81: Incorporate lessons learned from System Service Spec pilot (Vehicle Speed) into AFS and FIS | Jbaden1 |
| 6 | 0 | 2018-09-28 | * Broken links to RE Wiki repaired | Jbaden1 |
| 6 | 0 | 2018-10-31 | * Minor corrections on cover sheet and in footer to be more GIS compliant and VSEM aligned * “Overview” and “Description” exchanged in headings (following common sense) | Jbaden1 |
| 6 | 0 | 2018-11-30 | * Update of Functional Safety sections after review by Functional Safety Team * Initial support for variant handling | Jbaden1 |
| 6 | 0 | 2018-12-01 | * Variant condition fields added consistently * Links updated | Jbaden1 |
| 6 | 0 | 2018-12-11 | * Variant condition fields removed from mapping/allocation tables * Mapping tables simplified * Explanatory text for “Variants” sections revised | Jbaden1 |
| 6 | 0a | 2019-01-04 | * Chapter heading “Inherited Function Requirements” removed. Corresponding table renamed to “Requirements not cascaded”. * E/E Connection table got another column for allocated messages * Naming conventions for Implemented Functions corrected (FncName\_CmpName instead of FncName\_on\_CmpName) * Editorial corrections on the cover sheet * Explanatory text added to “Ethernet” section in chapter “Requirements on Connections” * AIS templates updated. Linked to Wiki page | Jbaden1 |
| 6 | 0a | 2019-01-04 | * Minor restructuring in FuSa chapter – after aligning with ECU Functional Spec * Bugfix: table 13 renamed from FTTI table to FHT table, includes a bug fix: each FSR is allocated to only one ECU/component | Jbaden1 |
| 6 | 0b | 2019-02-04 | * Change: Chapter “Interface Requirements” added to “Implemented Function xxx” section (to have a single chapter for to collect subscriber/publisher interface and mapping requirements which to not conform to the corresponding Data Dictionary objects) * Change: “CAN Interface” subsection renamed to “AIS Interfaces” again. Although several Subscriber/Publisher interface attributes are probably CAN bus specific, other attributes seem to be well suited for other networks than CAN. * Change: Chapter “ECU Specific Requirements” renamed to “Component Specific Requirements” in chapter “Implemented Function xxx”. Table “Requirements not cascaded” renamed to “Component Specific Requirements” and refined to describe changes from Logical Function requirements set more formally. This is also to help during VSEM import to identify those requirements of the Logical Function which cannot be simply carried over to the ECU. * Change: Explanatory text in section “Implemented Function xxx” improved. | Jbaden1 |
| 6 | 0c | 2019-02-05 | * Change: Layout of AIS Interfaces in Data Dictionary reworked to enable Excel Import | Jbaden1 |
| 6 | 0c | 2019-02-20 | * Bugfix: In AIS Interfaces none-picklist fields formatted as invisible | Jbaden1 |
| 6 | 1a | 2019-02-05 | Functional Safety related changes:   * Table “Architectural Redundancy Summary” updated * Section “Functional Flows for FTTI ‘xyz’” added to chapter “Component Interaction Diagrams” * Fault Tolerant Time Summary section added to Functional Safety chapter * Chapter “HW Metrics” added | Jbaden1 |
| 6 | 1a | 2019-04-02 | Headings of “Architectural Redundancy Summary” table clarified | Jbaden1 |
| 6 | 1a | 2019-04-10 | * ASIL Decomposition table moved from Function Spec into the Feature Implementation Spec (ASIL Decomposition of Technical Safety Requirements) * 2 alternative versions of the Function Allocation Table (Standard variant vs. Functional Safety variant) placed next to each other. | Jbaden1 |
| 6 | 1a | 2019-05-31 | * Function Allocation Table split into a base (non FuSa) part and a FuSa part to allow a more flexible mapping of MBSE functions (Logical and Technology) to RE functions (Atomic Logical and Implemented). | Jbaden1 |
| 6 | 1a | 2019-05-31 | * “Input Requirement” section reworked (symmetrically to all other templates). * Sections “Functional Flows for FTTI xyz” and “Fault Tolerant Time Summary” removed, because guidance is not available yet. * “Reference” and “Glossary” section moved back to introduction, i.e., to the very beginning of the document (such that also section 2 can already rely on it). * Some mostly editorial changes per request from FuSa team. | Jbaden1 |
| 6 | 1a | 2019-07-02 | * "Important" box added on cover sheet which points to the macros * “Input Requirements” section renamed to Input Information (after discussion with FuSa team) | Jbaden1 |
| 6 | 1a | 2019-07-17 | * Chapter “Message List” removed from CAN and LIN specific chapters of section “Requirements on Connections” | Jbaden1 |
| 6 | 1a | 2019-10-08 | * Chapter “ASIL Decomposition of Technical Safety Requirements”: Input TSRs are specified in the chapter right above the decomposition table. | Jbaden1 |
| 6 | 1a | 2019-10-09 | * Chapter “Service Oriented Communication” moved to section “Messages” in the Data Dictionary. Details from Central SW Wiki about FNV2 SOA added | Jbaden1 |
| 6 | 1a | 2019-10-25 | * Minor updates for HW IOs/Signals * Subsection “Functional Safety” removed from chapter “Feature Implementation Modeling”. Per requrest from FuSa team since no guidance is available how to model e.g. FHT timing diagram. | Jbaden1 |
| 6 | 1a | 2019-05-11 | * Copyright notice shortened and moved to cover sheet and added to footer (to be compliant [with Ford copyright guidelines](http://www.fgti.ford.com/client/NewFGTI/CopyrightNotice.html)) * Term “Disclaimer” no longer used for what is actually only a copyright notice | Jbaden1 |
| 6 | 1a | 2019-22-11 | * Some minor modifications for the SOA APIs/MQTT Messages in the section “Messages” of the Data Dictionary (section references Service Contracts via the API name) * Some minor updates of the Input/Output mapping tables in section “Requirements on Components” for mappings to SOA APIs and EDAS signals. | Jbaden1 |
| 6 | 1a | 2019-12-05 | * Upstream Documents section added to “Input Requirements/Documents” table * Custom style table formatting removed | Jbaden1 |
| 6 | 1a | 2020-01-07 | * Some fine tuning for naming conventions of E/E components and connections. * List of HW I/O signal types reduced to RF-A, RF-D, D, A, Networked and PWM. * Protocol column added to the E/E connection table | Jbaden1 |
| 6 | 1a | 2020-01-07 | * “HW Metric” and “Architecture Redundancy Summary” sections removed per request from the Functional Architecture Team (based on Governance Board decision [FSTGB-97](mailto:TrackLite%20%23%20FSTGB-97:%20https://www.tracklite.ford.com/prweb/PRAuth/TrackLiteSSO?pyActivity=@baseclass.RedirectAndRunWraper&ThreadName=WorkLinkThread&bPurgeTargetThread=true&AccessGroupName=FSTGB:ProjectAdministrators&Location=pyActivity%3DWork-.Open%26Action%3DReview%26HarnessPurpose%3DReview%26InsHandle%3DFORD-FSTGB-WORK+FSTGB-97)) * “Functional Safety” chapter moved to “Feature Implementation Requirements” section. “Function Allocation” chapter seemed no longer appropriate. | Jbaden1 |
| 6 | 1a | 2020-01-07 | * Ordering of fields in AIS interfaces tables modified to conform with the Macro Template and the Importer Sheet * Page Header: no longer in bold letters | Jbaden1 |
| 6 | 1a | 2020-03-09 | * Missing doc property “LatestSigMappingID” and “LatestAisInterfaceID” added * doc property “CopyrightDate” re-formatted to text and copyright date field in footer corrected * Version numbering re-initialized as 0.1 * Init value of version/revision date set to “yyyy/mm/dd” instead of “yyyy-mm-dd” to be in line with the “Edit Document Property” dialog * Type of “Latest….ID” doc properties changed from Text to Number | Jbaden1 |
| 6 | 1a | 2020-03-11 | * “Mapping” table removed from template. Has been migrated to macro. | Jbaden1 |
| 6 | 1a | 2020-03-13 | * Separate chapter “Technical Safety Requirements” removed. Content already covered by Allocation Table in chapter Function Allocation. * “Implemented Function” replaced by term “Technology Function” | Jbaden1 |

# Appendix

## Data Dictionary

### Logical Signals

AudioShareResp\_Command

Audio Share Resp Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of AudioShareResp\_Command

AudioShareResp\_Req

Internal Signal for Audio SHare Response

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of AudioShareResp\_Req

Audio\_Vol\_Level

Signal for Audio volume in full cabin mode

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Audio\_Vol\_Level

Audio\_Vol\_Level\_Zone

Signal is for the Media volume in Zone 1 to Zone 6.

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Audio\_Vol\_Level\_Zone

Audio\_Vol\_Updated

Signal indicates if audio volume was updated because of a user activated event in full cabin mode

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Audio\_Vol\_Updated

Audio\_Vol\_Zone\_Updated

Signal indicates if the Media volume was updated because of a user activated event in Zone 1 to Zone 6

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Audio\_Vol\_Zone\_Updated

AutomotiveAudio\_Req

Internal Signal for Automotive Audio Req

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of AutomotiveAudio\_Req

BTConnectionReq

Internal Signal for Bluetooth Connection Request

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of BTConnectionReq

BT\_Command

Bluetooth Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of BT\_Command

BluetoothAudioSource

Internal Signal for Bluetooth Audio Source

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of BluetoothAudioSource

BluetoothAudioSource\_Connection

Internal Signal for Bluetooth Audio Source

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of BluetoothAudioSource\_Connection

CA.Rq

Signal to request activation or deactivation of Captain Annoucement

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of CA.Rq

CA.St

Signal to provide status feedback of Captain Annoucement State.

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of CA.St

CA\_Command

Captain's Announcement Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of CA\_Command

CallRing\_Vol\_Level

Signal for Call Ring volume in full cabin mode

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of CallRing\_Vol\_Level

CallRing\_Vol\_Updated

Signal indicates if Call ring volume was updated because of a user activated event in full cabin mode

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of CallRing\_Vol\_Updated

ChangeVolume\_Req

Internal Signal for Change Volume

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of ChangeVolume\_Req

DND.Rq

Internal Signal for Do Not Disturb

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of DND.Rq

DND\_Command

Do Not Disturb Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of DND\_Command

HMI\_Captains Announcement\_ Status

HMI Status update for CA

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of HMI\_Captains Announcement\_ Status

HMI\_DND Status

HMI Status update for DND Status

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of HMI\_DND Status

HMI\_In-Car Communication Status

HMI Status update for ICC

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of HMI\_In-Car Communication Status

HMI\_MediashareRequest\_Feedback

HMI Feedback update for Media Share Request

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of HMI\_MediashareRequest\_Feedback

HMI\_Phone Call\_Status

HMI Status update for Phone Call

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of HMI\_Phone Call\_Status

HMI\_Source Selection\_Feedback

HMI Feedback update for Source Selection

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of HMI\_Source Selection\_Feedback

HMI\_Volume Control\_Feedback

HMI Feedback update for Volume Control

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of HMI\_Volume Control\_Feedback

HMI\_ZoneLockOut\_Feedback

HMI Feedback update for Zone Lockout

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of HMI\_ZoneLockOut\_Feedback

HMI\_Zone\_Cabin\_Mode\_Status

HMI Status update for Zone/Cabin Mode

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of HMI\_Zone\_Cabin\_Mode\_Status

ICC\_Command

In Car's Communication Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of ICC\_Command

ICC\_Rq

Signal to request activation or deactivation of InCar Communication

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of ICC\_Rq

ICC\_St

Signal to provide status feedback of InCar Communication

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of ICC\_St

KeyType

Key Type (MyKey/NotMyKey)

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of KeyType

MicrophoneStatus

Microphone Status (Enabled/Disabled)

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of MicrophoneStatus

MixableZonePrompts

Signal indicates if mixable zone prompts are active or inactive for Zone 1 to Zone 6.

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of MixableZonePrompts

MixableZonePromptsChannel

Signal specifies audio channel for the mixable zone prompts on zone 1 to Zone 6

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of MixableZonePromptsChannel

Offset\_Vol\_Zone

Signal is for the offset volume in Zone 1 to Zone 6.

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Offset\_Vol\_Zone

Offset\_Vol\_Zone\_Updated

Signal indicates if the Offset volume was updated because of a user activated event

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Offset\_Vol\_Zone\_Updated

PhoneCall\_Zone\_Rq

Signal requesting to switch the active phone call. This message is intended only for the Phones connected and mapped to zone 2.

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of PhoneCall\_Zone\_Rq

PhoneCall\_Zone\_St

Signal indicating the call status for the Phones connected and mapped to zone 2

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of PhoneCall\_Zone\_St

Phone\_Vol\_Level

Signal for Phone volume in full cabin mode

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Phone\_Vol\_Level

Phone\_Vol\_Updated

Signal indicates if phone volume was updated because of a user activated event in full cabin mode

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Phone\_Vol\_Updated

PlayAudio\_Req

Internal Signal for Play Audio Req

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of PlayAudio\_Req

Prompt\_Vol\_Level

Signal for Prompt volume in full cabin mode

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Prompt\_Vol\_Level

Prompt\_Vol\_Level\_Zone

Signal is for the Prompt volume in Zone 1 to Zone 6.

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Prompt\_Vol\_Level\_Zone

Prompt\_Vol\_Updated

Signal indicates if prompt volume was updated because of a user activated event in full cabin mode

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Prompt\_Vol\_Updated

Prompt\_Vol\_Zone\_Updated

Signal is to indicate if the Prompt volume was updated because of a user activated event

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Prompt\_Vol\_Zone\_Updated

RA\_Vol\_Level

Signal for Radio Announcement volume in full cabin mode

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of RA\_Vol\_Level

RA\_Vol\_Updated

Signal indicates if RA volume was updated because of a user activated event in full cabin mode

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of RA\_Vol\_Updated

Share\_Command

Request Share Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Share\_Command

Share\_Rq

Internal Signal for Audio Share Response

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Share\_Rq

SoundMode\_Command

Sound Mode Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of SoundMode\_Command

SourceType

Signal specifies selection of source type of audio used for zone 1 to zone 6

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of SourceType

SourceTypeChannel

Signal specifies selection of audio channel for the audio source for zone 1 to zone 6

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of SourceTypeChannel

SourceTypeStatus

Signal specifies the source type status of audio source used for zone 1 to zone 6

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of SourceTypeStatus

Source\_Command

Source Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Source\_Command

TempSource\_Vol\_Level\_Zone

Signal is for the Phone, Call Ring, and Radio Announcement volume in Zone 1 to Zone 6.

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of TempSource\_Vol\_Level\_Zone

TempSource\_Vol\_Zone\_Updated

Signal indicates if the TempSource volume was updated because of a user activated event

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of TempSource\_Vol\_Zone\_Updated

VehicleAudioMode

Signal to request to select Cabin mode or Zone Mode.

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of VehicleAudioMode

VehicleAudioMode\_Rsp

Signal provides feedback on Audio mode selection

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of VehicleAudioMode\_Rsp

VolCntlr\_Audio\_Vol\_Level\_Zone

Signal provides status of media volume that is active in zones 1 - 6

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of VolCntlr\_Audio\_Vol\_Level\_Zone

VolCntlr\_Offset\_Vol\_Level\_Zone

Signal provides status of the offset volume that is active in zones 1 - 6

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of VolCntlr\_Offset\_Vol\_Level\_Zone

VolCntlr\_TempSource\_Vol\_Level\_Zone

Signal provides status of Phone, Call Ring or Radio Announcement volume that is active in zones 1 - 6

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of VolCntlr\_TempSource\_Vol\_Level\_Zone

Volume\_Command

Volume Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Volume\_Command

ZoneLockReq

Internal Signal for Zone Lock Request

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of ZoneLockReq

ZoneLock\_Command

Zone Lock Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of ZoneLock\_Command

### Logical Parameters

### Technical Signals

|  |  |  |
| --- | --- | --- |
| Technology Signal | Documentation | Logical Signal |
| Audio |  |  |
| Audio\_Vol\_Level\_TBD | Signal for Audio volume in full cabin mode | Audio\_Vol\_Level |
| Audio\_Vol\_Level\_Zone\_TBD | Signal is for the Media volume in Zone 1 to Zone 6. | Audio\_Vol\_Level\_Zone |
| Audio\_Vol\_Updated\_TBD | Signal indicates if audio volume was updated because of a user activated event in full cabin mode | Audio\_Vol\_Updated |
| Audio\_Vol\_Zone\_Updated\_TDB | Signal indicates if the Media volume was updated because of a user activated event in Zone 1 to Zone 6 | Audio\_Vol\_Zone\_Updated |
| AudioShareResp\_Command\_TBD | Audio Share Resp Command (Physical Touch) | AudioShareResp\_Command |
| BLE\_AudioShareResp\_Req\_TBD | Internal Signal for Audio SHare Response | AudioShareResp\_Req |
| A2B\_AutomotiveAudio \_Req\_TBD | Internal Signal for Automotive Audio Req | AutomotiveAudio\_Req |
| BluetoothAudioSource\_TBD | Internal Signal for Bluetooth Audio Source | BluetoothAudioSource |
| BluetoothAudioSource\_Connection\_TBD | Internal Signal for Bluetooth Audio Source | BluetoothAudioSource\_Connection |
| BT\_Command\_TBD | Bluetooth Command (Physical Touch) | BT\_Command |
| BTConnectionReq\_TBD | Internal Signal for Bluetooth Connection Request | BTConnectionReq |
| CA\_Command\_TBD | Captain's Announcement Command (Physical Touch) | CA\_Command |
| CaptAnnouncement\_D\_Rq | Signal to request activation or deactivation of Captain Annoucement | CA.Rq |
| CaptAnnouncement\_D\_St | Signal to provide status feedback of Captain Annoucement State. | CA.St |
| CallRing\_Vol\_Level\_TBD | Signal for Call Ring volume in full cabin mode | CallRing\_Vol\_Level |
| CallRing\_Vol\_Updated\_TBD | Signal indicates if Call ring volume was updated because of a user activated event in full cabin mode | CallRing\_Vol\_Updated |
| BLE\_ChangeVolume\_TBD | Internal Signal for Change Volume | ChangeVolume\_Req |
| DND\_Command\_TBD | Do Not Disturb Command (Physical Touch) | DND\_Command |
| BLE\_DND.Rq\_TBD | Internal Signal for Do Not Disturb | DND.Rq |
| Captains Announcement\_ Status | HMI Status update for CA | HMI\_Captains Announcement\_ Status |
| DND Status | HMI Status update for DND Status | HMI\_DND Status |
| In-Car Communication Status | HMI Status update for ICC | HMI\_In-Car Communication Status |
| MediashareRequest\_Feedback | HMI Feedback update for Media Share Request | HMI\_MediashareRequest\_Feedback |
| Phone Call\_Status | HMI Status update for Phone Call | HMI\_Phone Call\_Status |
| Source Selection\_Feedback | HMI Feedback update for Source Selection | HMI\_Source Selection\_Feedback |
| Volume Control\_Feedback | HMI Feedback update for Volume Control | HMI\_Volume Control\_Feedback |
| Zone\_Cabin\_Mode\_Status | HMI Status update for Zone/Cabin Mode | HMI\_Zone\_Cabin\_Mode\_Status |
| ZoneLockOut\_Feedback | HMI Feedback update for Zone Lockout | HMI\_ZoneLockOut\_Feedback |
| ICC\_Command\_TBD | In Car's Communication Command (Physical Touch) | ICC\_Command |
| InCarComm\_B\_Rq | Signal to request activation or deactivation of InCar Communication | ICC\_Rq |
| InCarComm\_D\_St | Signal to provide status feedback of InCar Communication | ICC\_St |
| MixableZonePrompts\_TBD | Signal indicates if mixable zone prompts are active or inactive for Zone 1 to Zone 6. | MixableZonePrompts |
| MixableZonePromptsChannel\_TBD | Signal specifies audio channel for the mixable zone prompts on zone 1 to Zone 6 | MixableZonePromptsChannel |
| Offset\_Vol\_Zone\_TBD | Signal is for the offset volume in Zone 1 to Zone 6. | Offset\_Vol\_Zone |
| Offset\_Vol\_Zone\_Updated\_TBD | Signal indicates if the Offset volume was updated because of a user activated event | Offset\_Vol\_Zone\_Updated |
| Phone\_Vol\_Level\_TBD | Signal for Phone volume in full cabin mode | Phone\_Vol\_Level |
| Phone\_Vol\_Updated\_TBD | Signal indicates if phone volume was updated because of a user activated event in full cabin mode | Phone\_Vol\_Updated |
| PhnCallSwtchZone\_D\_Rq | Signal requesting to switch the active phone call. This message is intended only for the Phones connected and mapped to zone 2. | PhoneCall\_Zone\_Rq |
| PhnCallZone\_D\_St | Signal indicating the call status for the Phones connected and mapped to zone 2 | PhoneCall\_Zone\_St |
| A2B\_PlayAudio\_Req\_TBD | Internal Signal for Play Audio Req | PlayAudio\_Req |
| Prompt\_Vol\_Level\_TBD | Signal for Prompt volume in full cabin mode | Prompt\_Vol\_Level |
| Prompt\_Vol\_Level\_Zone\_TBD | Signal is for the Prompt volume in Zone 1 to Zone 6. | Prompt\_Vol\_Level\_Zone |
| Prompt\_Vol\_Updated\_TBD | Signal indicates if prompt volume was updated because of a user activated event in full cabin mode | Prompt\_Vol\_Updated |
| Prompt\_Vol\_Zone\_Updated\_TBD | Signal is to indicate if the Prompt volume was updated because of a user activated event | Prompt\_Vol\_Zone\_Updated |
| RA\_Vol\_Level\_TBD | Signal for Radio Announcement volume in full cabin mode | RA\_Vol\_Level |
| RA\_Vol\_Updated\_TBD | Signal indicates if RA volume was updated because of a user activated event in full cabin mode | RA\_Vol\_Updated |
| Share\_Command\_TBD | Request Share Command (Physical Touch) | Share\_Command |
| BLE\_Share\_Rq\_TBD | Internal Signal for Audio Share Response | Share\_Rq |
| SoundMode\_Command\_TBD | Sound Mode Command (Physical Touch) | SoundMode\_Command |
| Source\_Command\_TBD | Source Command (Physical Touch) | Source\_Command |
| SourceType\_TBD | Signal specifies selection of source type of audio used for zone 1 to zone 6 | SourceType |
| SourceTypeChannel\_TBD | Signal specifies selection of audio channel for the audio source for zone 1 to zone 6 | SourceTypeChannel |
| SourceTypeStatus\_TBD | Signal specifies the source type status of audio source used for zone 1 to zone 6 | SourceTypeStatus |
| TempSource\_Vol\_Level\_Zone\_TBD | Signal is for the Phone, Call Ring, and Radio Announcement volume in Zone 1 to Zone 6. | TempSource\_Vol\_Level\_Zone |
| TempSource\_Vol\_Zone\_Updated\_TBD | Signal indicates if the TempSource volume was updated because of a user activated event | TempSource\_Vol\_Zone\_Updated |
| VehicleAudioMode\_TBD | Signal to request to select Cabin mode or Zone Mode. | VehicleAudioMode |
| DSP\_VehicleAudioMode\_Rsp\_TBD | Signal provides feedback on Audio mode selection | VehicleAudioMode\_Rsp |
| PAC\_VehicleAudioMode\_Rsp\_TBD | Signal provides feedback on Audio mode selection | VehicleAudioMode\_Rsp |
| DSP\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD | Signal provides status of media volume that is active in zones 1 - 6 | VolCntlr\_Audio\_Vol\_Level\_Zone |
| PAC\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD | Signal provides status of media volume that is active in zones 1 - 6 | VolCntlr\_Audio\_Vol\_Level\_Zone |
| DSP\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD | Signal provides status of the offset volume that is active in zones 1 - 6 | VolCntlr\_Offset\_Vol\_Level\_Zone |
| PAC\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD | Signal provides status of the offset volume that is active in zones 1 - 6 | VolCntlr\_Offset\_Vol\_Level\_Zone |
| DSP\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD | Signal provides status of Phone, Call Ring or Radio Announcement volume that is active in zones 1 - 6 | VolCntlr\_TempSource\_Vol\_Level\_Zone |
| PAC\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD | Signal provides status of Phone, Call Ring or Radio Announcement volume that is active in zones 1 - 6 | VolCntlr\_TempSource\_Vol\_Level\_Zone |
| Volume\_Command\_TBD | Volume Command (Physical Touch) | Volume\_Command |
| ZoneLock\_Command\_TBD | Zone Lock Command (Physical Touch) | ZoneLock\_Command |
| ZoneLockReq\_TBD | Internal Signal for Zone Lock Request | ZoneLockReq |

#### GSDB Signals

#### HW I/Os

#### Diagnostic Interfaces

##### DTCs

<Some Description of the DTC.

Refer to VSEM document “[Diagnostic Fault Coverage and DTC Numbers](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=yAUtrNhnx3NrTDAAAAAAAAAAAAA&servername=Production_Server)

[Design Consideration](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=yAUtrNhnx3NrTDAAAAAAAAAAAAA&servername=Production_Server)”, what to fill into the attributes below>

|  |  |
| --- | --- |
| **Test Period Time** |  |
| **Test Run Criteria,** |  |
| **Enable Criteria (EC)** |  |
| **Applicable** |  |
| **FailureTypeBytes** |  |
| **Test Period Time** |  |
| **Test Run Criteria,** |  |

##### DIDs

### Technical Parameters

### Technical Interfaces

#### AIS Interfaces

##### Publisher Interfaces

##### Subscriber Interfaces

#### AUTOSAR Ports

### Encoding Types

TempSource\_Vol\_Zone\_Updated\_ET

Encoding Type for Temporary Source Vol Level Zone Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Updated |
| **NoUpdate** | NoUpdate |
| **Unit** | |  |

Table: Encoding Details of TempSource\_Vol\_Zone\_Updated\_ET

Prompt\_Vol\_Level\_TBD\_ET

Encoding Type for Prompt Vol Level (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | Prompt Volume Level signal for volume level 0 |
| **Vol\_Step1** | Prompt Volume Level signal for volume level 1 |
| **Vol\_Step2** | Prompt Volume Level signal for volume level 2 |
| **Vol\_Step3** | Prompt Volume Level signal for volume level 3 |
| **Vol\_Step4** | Prompt Volume Level signal for volume level 4 |
| **Vol\_Step5** | Prompt Volume Level signal for volume level 5 |
| **Vol\_Step6** | Prompt Volume Level signal for volume level 6 |
| **Vol\_Step7** | Prompt Volume Level signal for volume level 7 |
| **Vol\_Step8** | Prompt Volume Level signal for volume level 8 |
| **Vol\_Step9** | Prompt Volume Level signal for volume level 9 |
| **Vol\_Step10** | Prompt Volume Level signal for volume level 10 |
| **Vol\_Step11** | Prompt Volume Level signal for volume level 11 |
| **Vol\_Step12** | Prompt Volume Level signal for volume level 12 |
| **Vol\_Step13** | Prompt Volume Level signal for volume level 13 |
| **Vol\_Step14** | Prompt Volume Level signal for volume level 14 |
| **Vol\_Step15** | Prompt Volume Level signal for volume level 15 |
| **Vol\_Step16** | Prompt Volume Level signal for volume level 16 |
| **Vol\_Step17** | Prompt Volume Level signal for volume level 17 |
| **Vol\_Step18** | Prompt Volume Level signal for volume level 18 |
| **Vol\_Step19** | Prompt Volume Level signal for volume level 19 |
| **Vol\_Step20** | Prompt Volume Level signal for volume level 20 |
| **Vol\_Step21** | Prompt Volume Level signal for volume level 21 |
| **Vol\_Step22** | Prompt Volume Level signal for volume level 22 |
| **Vol\_Step23** | Prompt Volume Level signal for volume level 23 |
| **Vol\_Step24** | Prompt Volume Level signal for volume level 24 |
| **Vol\_Step25** | Prompt Volume Level signal for volume level 25 |
| **Vol\_Step26** | Prompt Volume Level signal for volume level 26 |
| **Vol\_Step27** | Prompt Volume Level signal for volume level 27 |
| **Vol\_Step28** | Prompt Volume Level signal for volume level 28 |
| **Vol\_Step29** | Prompt Volume Level signal for volume level 29 |
| **Vol\_Step30** | Prompt Volume Level signal for volume level 30 |
| **Unit** | |  |

Table: Encoding Details of Prompt\_Vol\_Level\_TBD\_ET

Phone\_Vol\_Updated\_ET

Encoding Type for Phone Vol Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Updated |
| **NoUpdate** | NoUpdate |
| **Unit** | |  |

Table: Encoding Details of Phone\_Vol\_Updated\_ET

Prompt\_Vol\_Zone\_Updated\_ET

Encoding Type for Prompt Vol Zone Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Updated |
| **NoUpdate** | NoUpdate |
| **Unit** | |  |

Table: Encoding Details of Prompt\_Vol\_Zone\_Updated\_ET

Audio\_Vol\_Zone\_Updated\_ET

Encoding Type for Audio Vol Zone Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Updated |
| **NoUpdate** | NoUpdate |
| **Unit** | |  |

Table: Encoding Details of Audio\_Vol\_Zone\_Updated\_ET

PhoneCall\_Zone\_Rq\_ET

Encoding Type for Phone Call Zone Request (NoCall/ CallRinging/ CallActive)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoCall** | NoCall |
| **CallRinging** | CallRinging |
| **CallActive** | CallActive |
| **Unit** | |  |

Table: Encoding Details of PhoneCall\_Zone\_Rq\_ET

MixableZonePromptsChannel\_ET

Encoding Type for Mixable Zone Prompts Channel (Inactive/A2B\_ID1...A2B\_ID32/Reserved for future expansion)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | Inactive |
| **A2B\_ID1** | A2B\_ID1 |
| **A2B\_ID2** | A2B\_ID2 |
| **A2B\_ID3** | A2B\_ID3 |
| **A2B\_ID4** | A2B\_ID4 |
| **A2B\_ID5** | A2B\_ID5 |
| **A2B\_ID6** | A2B\_ID6 |
| **A2B\_ID7** | A2B\_ID7 |
| **A2B\_ID8** | A2B\_ID8 |
| **A2B\_ID9** | A2B\_ID9 |
| **A2B\_ID10** | A2B\_ID10 |
| **A2B\_ID11** | A2B\_ID11 |
| **A2B\_ID12** | A2B\_ID12 |
| **A2B\_ID13** | A2B\_ID13 |
| **A2B\_ID14** | A2B\_ID14 |
| **A2B\_ID15** | A2B\_ID15 |
| **A2B\_ID16** | A2B\_ID16 |
| **A2B\_ID17** | A2B\_ID17 |
| **A2B\_ID18** | A2B\_ID18 |
| **A2B\_ID19** | A2B\_ID19 |
| **A2B\_ID20** | A2B\_ID20 |
| **A2B\_ID21** | A2B\_ID21 |
| **A2B\_ID22** | A2B\_ID22 |
| **A2B\_ID23** | A2B\_ID23 |
| **A2B\_ID24** | A2B\_ID24 |
| **A2B\_ID25** | A2B\_ID25 |
| **A2B\_ID26** | A2B\_ID26 |
| **A2B\_ID27** | A2B\_ID27 |
| **A2B\_ID28** | A2B\_ID28 |
| **A2B\_ID29** | A2B\_ID29 |
| **A2B\_ID30** | A2B\_ID30 |
| **A2B\_ID31** | A2B\_ID31 |
| **A2B\_ID32** | A2B\_ID32 |
| **Reserved for future expansion** | Reserved for future expansion |
| **Unit** | |  |

Table: Encoding Details of MixableZonePromptsChannel\_ET

Prompt\_Vol\_Zone\_Updated\_TBD\_ET

Encoding Type for Prompt Vol Zone Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Prompt Volume Update signal for when the volume is updated |
| **NoUpdate** | Prompt Volume Update signal for when the volume is not updated |
| **Unit** | |  |

Table: Encoding Details of Prompt\_Vol\_Zone\_Updated\_TBD\_ET

BLE\_AutomotiveAudio \_Req\_ET

Encoding type for Automotive Audio Req (Routed Audio Requested)(Internal Signal)

MixableZonePrompts\_ET

Encoding Type for Mixable Zone Prompts (Inactive/Active)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | Inactive |
| **Active** | Active |
| **Unit** | |  |

Table: Encoding Details of MixableZonePrompts\_ET

DSP\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD\_ET

Encoding Type for Volume Control Offset Volume Zone (-3/-2/-1/0/1/2/3/Unused)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **-3** | Signal Processor Offset Volume Level signal for volume level -3 |
| **-2** | Signal Processor Offset Volume Level signal for volume level -2 |
| **-1** | Signal Processor Offset Volume Level signal for volume level -1 |
| **0** | Signal Processor Offset Volume Level signal for volume level 0 |
| **1** | Signal Processor Offset Volume Level signal for volume level 1 |
| **2** | Signal Processor Offset Volume Level signal for volume level 2 |
| **3** | Signal Processor Offset Volume Level signal for volume level 3 |
| **Unused** | Signal Processor Offset Volume Level signal for volume level "Unused" |
| **Unit** | |  |

Table: Encoding Details of DSP\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD\_ET

BLE\_Share\_Rq\_ET

Encoding Type for Audio Share Response (Accepted/Declined)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Accept** | Accepted |
| **Decline** | Declined |
| **Unit** | |  |

Table: Encoding Details of BLE\_Share\_Rq\_ET

ZoneLockOut\_Feedback\_ET

Encoding Type for HMI Feedback update for Zone Lockout)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of ZoneLockOut\_Feedback\_ET

SourceType\_ET

Encoding Type for Source Type (Inactive/ Audio Off/ Aux\_Media/ AM/ FM/ SDARS SAT/ SDARS IP/ DAB/ Phone/ Call Ring/ Radio Announcement/ VR/ Priority Assist/ Reserved)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive / Audio OFF** | Inactive / Audio OFF |
| **Aux\_Media** | Aux\_Media |
| **AM** | AM |
| **FM** | FM |
| **SDARS SAT** | SDARS SAT |
| **SDARS IP** | SDARS IP |
| **DAB** | DAB |
| **Phone** | Phone |
| **Call Ring** | Call Ring |
| **Radio Announcement** | Radio Announcement |
| **VR** | VR |
| **Priority Assist** | Priority Assist |
| **Reserved** | Reserved |
| **Unit** | |  |

Table: Encoding Details of SourceType\_ET

PAC\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD\_ET

Encoding Type for Volume Control Temporary Source Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | Audio Controller Temporary Source Volume Level signal for volume level 0 |
| **Vol\_Step1** | Audio Controller Temporary Source Volume Level signal for volume level 1 |
| **Vol\_Step2** | Audio Controller Temporary Source Volume Level signal for volume level 2 |
| **Vol\_Step3** | Audio Controller Temporary Source Volume Level signal for volume level 3 |
| **Vol\_Step4** | Audio Controller Temporary Source Volume Level signal for volume level 4 |
| **Vol\_Step5** | Audio Controller Temporary Source Volume Level signal for volume level 5 |
| **Vol\_Step6** | Audio Controller Temporary Source Volume Level signal for volume level 6 |
| **Vol\_Step7** | Audio Controller Temporary Source Volume Level signal for volume level 7 |
| **Vol\_Step8** | Audio Controller Temporary Source Volume Level signal for volume level 8 |
| **Vol\_Step9** | Audio Controller Temporary Source Volume Level signal for volume level 9 |
| **Vol\_Step10** | Audio Controller Temporary Source Volume Level signal for volume level 10 |
| **Vol\_Step11** | Audio Controller Temporary Source Volume Level signal for volume level 11 |
| **Vol\_Step12** | Audio Controller Temporary Source Volume Level signal for volume level 12 |
| **Vol\_Step13** | Audio Controller Temporary Source Volume Level signal for volume level 13 |
| **Vol\_Step14** | Audio Controller Temporary Source Volume Level signal for volume level 14 |
| **Vol\_Step15** | Audio Controller Temporary Source Volume Level signal for volume level 15 |
| **Vol\_Step16** | Audio Controller Temporary Source Volume Level signal for volume level 16 |
| **Vol\_Step17** | Audio Controller Temporary Source Volume Level signal for volume level 17 |
| **Vol\_Step18** | Audio Controller Temporary Source Volume Level signal for volume level 18 |
| **Vol\_Step19** | Audio Controller Temporary Source Volume Level signal for volume level 19 |
| **Vol\_Step20** | Audio Controller Temporary Source Volume Level signal for volume level 20 |
| **Vol\_Step21** | Audio Controller Temporary Source Volume Level signal for volume level 21 |
| **Vol\_Step22** | Audio Controller Temporary Source Volume Level signal for volume level 22 |
| **Vol\_Step23** | Audio Controller Temporary Source Volume Level signal for volume level 23 |
| **Vol\_Step24** | Audio Controller Temporary Source Volume Level signal for volume level 24 |
| **Vol\_Step25** | Audio Controller Temporary Source Volume Level signal for volume level 25 |
| **Vol\_Step26** | Audio Controller Temporary Source Volume Level signal for volume level 26 |
| **Vol\_Step27** | Audio Controller Temporary Source Volume Level signal for volume level 27 |
| **Vol\_Step28** | Audio Controller Temporary Source Volume Level signal for volume level 28 |
| **Vol\_Step29** | Audio Controller Temporary Source Volume Level signal for volume level 29 |
| **Vol\_Step30** | Audio Controller Temporary Source Volume Level signal for volume level 30 |
| **Unit** | |  |

Table: Encoding Details of PAC\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD\_ET

Phone\_Vol\_Level\_TBD\_ET

Encoding Type for Phone Vol Level Zone (Zone 1/2/3/4/5/6)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | Phone Volume Level signal for volume level 0 |
| **Vol\_Step1** | Phone Volume Level signal for volume level 1 |
| **Vol\_Step2** | Phone Volume Level signal for volume level 2 |
| **Vol\_Step3** | Phone Volume Level signal for volume level 3 |
| **Vol\_Step4** | Phone Volume Level signal for volume level 4 |
| **Vol\_Step5** | Phone Volume Level signal for volume level 5 |
| **Vol\_Step6** | Phone Volume Level signal for volume level 6 |
| **Vol\_Step7** | Phone Volume Level signal for volume level 7 |
| **Vol\_Step8** | Phone Volume Level signal for volume level 8 |
| **Vol\_Step9** | Phone Volume Level signal for volume level 9 |
| **Vol\_Step10** | Phone Volume Level signal for volume level 10 |
| **Vol\_Step11** | Phone Volume Level signal for volume level 11 |
| **Vol\_Step12** | Phone Volume Level signal for volume level 12 |
| **Vol\_Step13** | Phone Volume Level signal for volume level 13 |
| **Vol\_Step14** | Phone Volume Level signal for volume level 14 |
| **Vol\_Step15** | Phone Volume Level signal for volume level 15 |
| **Vol\_Step16** | Phone Volume Level signal for volume level 16 |
| **Vol\_Step17** | Phone Volume Level signal for volume level 17 |
| **Vol\_Step18** | Phone Volume Level signal for volume level 18 |
| **Vol\_Step19** | Phone Volume Level signal for volume level 19 |
| **Vol\_Step20** | Phone Volume Level signal for volume level 20 |
| **Vol\_Step21** | Phone Volume Level signal for volume level 21 |
| **Vol\_Step22** | Phone Volume Level signal for volume level 22 |
| **Vol\_Step23** | Phone Volume Level signal for volume level 23 |
| **Vol\_Step24** | Phone Volume Level signal for volume level 24 |
| **Vol\_Step25** | Phone Volume Level signal for volume level 25 |
| **Vol\_Step26** | Phone Volume Level signal for volume level 26 |
| **Vol\_Step27** | Phone Volume Level signal for volume level 27 |
| **Vol\_Step28** | Phone Volume Level signal for volume level 28 |
| **Vol\_Step29** | Phone Volume Level signal for volume level 29 |
| **Vol\_Step30** | Phone Volume Level signal for volume level 30 |
| **Unit** | |  |

Table: Encoding Details of Phone\_Vol\_Level\_TBD\_ET

In-Car Communication Status\_ET

Encoding Type for HMI Status update for ICC

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of In-Car Communication Status\_ET

PhoneCall\_Zone\_St\_ET

Encoding Type for Phone Call Zone Status (Inactive( Privacy/ Handsfree)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | Inactive |
| **Privacy** | Privacy |
| **Handsfree** | Handsfree |
| **Unit** | |  |

Table: Encoding Details of PhoneCall\_Zone\_St\_ET

BluetoothAudioSource\_ET

Encoding Type for Bluetooth Audio Source (Connected)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Connected** | Connected |
| **Unit** | |  |

Table: Encoding Details of BluetoothAudioSource\_ET

Audio\_Vol\_Level\_TBD\_ET

Encoding Type for Audio Vol Level (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | Cabin Audio Volume Level signal for volume level 0 |
| **Vol\_Step1** | Cabin Audio Volume Level signal for volume level 1 |
| **Vol\_Step2** | Cabin Audio Volume Level signal for volume level 2 |
| **Vol\_Step3** | Cabin Audio Volume Level signal for volume level 3 |
| **Vol\_Step4** | Cabin Audio Volume Level signal for volume level 4 |
| **Vol\_Step5** | Cabin Audio Volume Level signal for volume level 5 |
| **Vol\_Step6** | Cabin Audio Volume Level signal for volume level 6 |
| **Vol\_Step7** | Cabin Audio Volume Level signal for volume level 7 |
| **Vol\_Step8** | Cabin Audio Volume Level signal for volume level 8 |
| **Vol\_Step9** | Cabin Audio Volume Level signal for volume level 9 |
| **Vol\_Step10** | Cabin Audio Volume Level signal for volume level 10 |
| **Vol\_Step11** | Cabin Audio Volume Level signal for volume level 11 |
| **Vol\_Step12** | Cabin Audio Volume Level signal for volume level 12 |
| **Vol\_Step13** | Cabin Audio Volume Level signal for volume level 13 |
| **Vol\_Step14** | Cabin Audio Volume Level signal for volume level 14 |
| **Vol\_Step15** | Cabin Audio Volume Level signal for volume level 15 |
| **Vol\_Step16** | Cabin Audio Volume Level signal for volume level 16 |
| **Vol\_Step17** | Cabin Audio Volume Level signal for volume level 17 |
| **Vol\_Step18** | Cabin Audio Volume Level signal for volume level 18 |
| **Vol\_Step19** | Cabin Audio Volume Level signal for volume level 1 |
| **Vol\_Step20** | Cabin Audio Volume Level signal for volume level 20 |
| **Vol\_Step21** | Cabin Audio Volume Level signal for volume level 21 |
| **Vol\_Step22** | Cabin Audio Volume Level signal for volume level 22 |
| **Vol\_Step23** | Cabin Audio Volume Level signal for volume level 23 |
| **Vol\_Step24** | Cabin Audio Volume Level signal for volume level 24 |
| **Vol\_Step25** | Cabin Audio Volume Level signal for volume level 25 |
| **Vol\_Step26** | Cabin Audio Volume Level signal for volume level 26 |
| **Vol\_Step27** | Cabin Audio Volume Level signal for volume level 27 |
| **Vol\_Step28** | Cabin Audio Volume Level signal for volume level 28 |
| **Vol\_Step29** | Cabin Audio Volume Level signal for volume level 29 |
| **Vol\_Step30** | Cabin Audio Volume Level signal for volume level 30 |
| **Unit** | |  |

Table: Encoding Details of Audio\_Vol\_Level\_TBD\_ET

Prompt\_Vol\_Updated\_TBD\_ET

Encoding Type for Prompt Vol Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Prompt Volume Update signal for when the volume is updated |
| **NoUpdate** | Prompt Volume Update signal for when the volume is not updated |
| **Unit** | |  |

Table: Encoding Details of Prompt\_Vol\_Updated\_TBD\_ET

SourceTypeStatus\_ET

Encoding Type for Source Type Status (Inactive/ Deallocated/ Stacked/ Granted)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | Inactive |
| **Deallocated** | Deallocated |
| **Stacked** | Stacked |
| **Granted** | Granted |
| **Unit** | |  |

Table: Encoding Details of SourceTypeStatus\_ET

VolCntlr\_Offset\_Vol\_Level\_Zone\_ET

Encoding Type for Volume Control Offset Volume Zone (-3/-2/-1/0/1/2/3/Unused)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **-3** | -3 |
| **-2** | -2 |
| **-1** | -1 |
| **0** | 0 |
| **1** | 1 |
| **2** | 2 |
| **3** | 3 |
| **Unused** | Unused |
| **Unit** | |  |

Table: Encoding Details of VolCntlr\_Offset\_Vol\_Level\_Zone\_ET

Prompt\_Vol\_Level\_Zone\_ET

Encoding Type for Prompt Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | NoVolume |
| **Vol\_Step1** | Vol\_Step1 |
| **Vol\_Step2** | Vol\_Step2 |
| **Vol\_Step3** | Vol\_Step3 |
| **Vol\_Step4** | Vol\_Step4 |
| **Vol\_Step5** | Vol\_Step5 |
| **Vol\_Step6** | Vol\_Step6 |
| **Vol\_Step7** | Vol\_Step7 |
| **Vol\_Step8** | Vol\_Step8 |
| **Vol\_Step9** | Vol\_Step9 |
| **Vol\_Step10** | Vol\_Step10 |
| **Vol\_Step11** | Vol\_Step11 |
| **Vol\_Step12** | Vol\_Step12 |
| **Vol\_Step13** | Vol\_Step13 |
| **Vol\_Step14** | Vol\_Step14 |
| **Vol\_Step15** | Vol\_Step15 |
| **Vol\_Step16** | Vol\_Step16 |
| **Vol\_Step17** | Vol\_Step17 |
| **Vol\_Step18** | Vol\_Step18 |
| **Vol\_Step19** | Vol\_Step19 |
| **Vol\_Step20** | Vol\_Step20 |
| **Vol\_Step21** | Vol\_Step21 |
| **Vol\_Step22** | Vol\_Step22 |
| **Vol\_Step23** | Vol\_Step23 |
| **Vol\_Step24** | Vol\_Step24 |
| **Vol\_Step25** | Vol\_Step25 |
| **Vol\_Step26** | Vol\_Step26 |
| **Vol\_Step27** | Vol\_Step27 |
| **Vol\_Step28** | Vol\_Step28 |
| **Vol\_Step29** | Vol\_Step29 |
| **Vol\_Step30** | Vol\_Step30 |
| **Unit** | |  |

Table: Encoding Details of Prompt\_Vol\_Level\_Zone\_ET

Captains Announcement\_ Status\_ET

Encoding Type for HMI Status update for CA

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of Captains Announcement\_ Status\_ET

TempSource\_Vol\_Level\_Zone\_ET

Encoding Type for Temporary Source Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | NoVolume |
| **Vol\_Step1** | Vol\_Step1 |
| **Vol\_Step2** | Vol\_Step2 |
| **Vol\_Step3** | Vol\_Step3 |
| **Vol\_Step4** | Vol\_Step4 |
| **Vol\_Step5** | Vol\_Step5 |
| **Vol\_Step6** | Vol\_Step6 |
| **Vol\_Step7** | Vol\_Step7 |
| **Vol\_Step8** | Vol\_Step8 |
| **Vol\_Step9** | Vol\_Step9 |
| **Vol\_Step10** | Vol\_Step10 |
| **Vol\_Step11** | Vol\_Step11 |
| **Vol\_Step12** | Vol\_Step12 |
| **Vol\_Step13** | Vol\_Step13 |
| **Vol\_Step14** | Vol\_Step14 |
| **Vol\_Step15** | Vol\_Step15 |
| **Vol\_Step16** | Vol\_Step16 |
| **Vol\_Step17** | Vol\_Step17 |
| **Vol\_Step18** | Vol\_Step18 |
| **Vol\_Step19** | Vol\_Step19 |
| **Vol\_Step20** | Vol\_Step20 |
| **Vol\_Step21** | Vol\_Step21 |
| **Vol\_Step22** | Vol\_Step22 |
| **Vol\_Step23** | Vol\_Step23 |
| **Vol\_Step24** | Vol\_Step24 |
| **Vol\_Step25** | Vol\_Step25 |
| **Vol\_Step26** | Vol\_Step26 |
| **Vol\_Step27** | Vol\_Step27 |
| **Vol\_Step28** | Vol\_Step28 |
| **Vol\_Step29** | Vol\_Step29 |
| **Vol\_Step30** | Vol\_Step30 |
| **Unit** | |  |

Table: Encoding Details of TempSource\_Vol\_Level\_Zone\_ET

DSP\_VehicleAudioMode\_Rsp\_TBD\_ET

Encoding Type for Vehicle Audio Mode Response (Null/ Cabin/ Zone)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Null** | Null |
| **Cabin** | Audio Mode change request signal for "Cabin Mode" stored in the signal processor. |
| **Zone** | Audio Mode status signal for "Zone Mode" stored in the signal processor. |
| **Unit** | |  |

Table: Encoding Details of DSP\_VehicleAudioMode\_Rsp\_TBD\_ET

SourceType\_TBD\_ET

Encoding Type for Source Type (Inactive/ Audio Off/ Aux\_Media/ AM/ FM/ SDARS SAT/ SDARS IP/ DAB/ Phone/ Call Ring/ Radio Announcement/ VR/ Priority Assist/ Reserved)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive / Audio OFF** | Source Type signal for when there is no audio source. |
| **Aux\_Media** | Source Type signal for the auxillary media source. |
| **AM** | Source Type signal for the AM Radio media source. |
| **FM** | Source Type signal for the FM Radio media source. |
| **SDARS SAT** | Source Type signal for the SDARS SAT media source. |
| **SDARS IP** | Source Type signal for the SDARS IP media source. |
| **DAB** | Source Type signal for the DAB Radio media source. |
| **Phone** | Source Type signal for the Phone stream audio source. |
| **Call Ring** | Source Type signal for the Phone Call Ring audio source. |
| **Radio Announcement** | Source Type signal for the Radio Announcement audio source. |
| **VR** | Source Type signal for the Voice Recognition audio source. |
| **Priority Assist** | Source Type signal for the Priority Assist audio source. |
| **Reserved** | Source Type signal for "Reserved" audio sources |
| **Unit** | |  |

Table: Encoding Details of SourceType\_TBD\_ET

BLE\_AudioShareResp\_Req\_ET

Encoding type for Audio SHare Response (Accept/Decline)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Accept** | Accept |
| **Decline** | Decline |
| **Unit** | |  |

Table: Encoding Details of BLE\_AudioShareResp\_Req\_ET

ZoneLockReq\_ET

Encoding Type for Zone Lock Request (Activate/ Deactivate)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Activate** | Activate |
| **Deactivate** | Deactivate |
| **Unit** | |  |

Table: Encoding Details of ZoneLockReq\_ET

HMI\_Source Selection\_Feedback\_ET

Encoding Type for Source Selection\_Feedback (LVDS Feedback)(Internal Signal)

CA.St\_ET

Encoding Type for Captain's Announcement Status (Inactive/ CA Active/ CA Disabled)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | Inactive |
| **CA Active** | CA Active |
| **CA Disabled** | CA Disabled |
| **Unit** | |  |

Table: Encoding Details of CA.St\_ET

Prompt\_Vol\_Updated\_ET

Encoding Type for Prompt Vol Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Updated |
| **NoUpdate** | NoUpdate |
| **Unit** | |  |

Table: Encoding Details of Prompt\_Vol\_Updated\_ET

Connection\_Type

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Network** |  |
| **Analog** |  |
| **Digital** |  |
| **RF-Digital** |  |
| **RF-Analog** |  |
| **PMW** |  |
| **Unit** | |  |

Table: Encoding Details of Connection\_Type

Offset\_Vol\_Zone\_TBD\_ET

Encoding Type for Offset Volume Zone (-3/-2/-1/0/1/2/3/Unused)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **-3** | Offset Volume Level signal for volume level -3 |
| **-2** | Offset Volume Level signal for volume level -2 |
| **-1** | Offset Volume Level signal for volume level -1 |
| **0** | Offset Volume Level signal for volume level 0 |
| **1** | Offset Volume Level signal for volume level 1 |
| **2** | Offset Volume Level signal for volume level 2 |
| **3** | Offset Volume Level signal for volume level 3 |
| **Unused** | Offset Volume Level signal for volume level "Unused" |
| **Unit** | |  |

Table: Encoding Details of Offset\_Vol\_Zone\_TBD\_ET

BLE\_DND.Rq\_ET

Encoding Type for Do Not Disturb (Enable/Disable)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Enable** | Enable |
| **Disable** | Disable |
| **Unit** | |  |

Table: Encoding Details of BLE\_DND.Rq\_ET

TempSource\_Vol\_Zone\_Updated\_TBD\_ET

Encoding Type for Temporary Source Vol Level Zone Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Temporary Source Volume Update signal for when the volume is updated |
| **NoUpdate** | Temporary Source Volume Update signal for when the volume is not updated |
| **Unit** | |  |

Table: Encoding Details of TempSource\_Vol\_Zone\_Updated\_TBD\_ET

SourceTypeChannel\_TBD\_ET

Encoding Type for Source Type Channel (Inactive/A2B\_ID1...A2B\_ID32/Reserved for future expansion)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | Source Type Channel signal when is source is not being used |
| **BT\_Zone2** | Source Type channel signal when a source is applied to BT\_Zone2 |
| **Reserved for future expansion** | Source Type Channel signal for "Reserved" |
| **A2B\_ID1** | Source Type Channel signal when a source is applied to ID1 |
| **A2B\_ID2** | Source Type Channel signal when a source is applied to ID2 |
| **A2B\_ID3** | Source Type Channel signal when a source is applied to ID3 |
| **A2B\_ID4** | Source Type Channel signal when a source is applied to ID4 |
| **A2B\_ID5** | Source Type Channel signal when a source is applied to ID5 |
| **A2B\_ID6** | Source Type Channel signal when a source is applied to ID6 |
| **A2B\_ID7** | Source Type Channel signal when a source is applied to ID7 |
| **A2B\_ID8** | Source Type Channel signal when a source is applied to ID8 |
| **A2B\_ID9** | Source Type Channel signal when a source is applied to ID9 |
| **A2B\_ID10** | Source Type Channel signal when a source is applied to ID10 |
| **A2B\_ID11** | Source Type Channel signal when a source is applied to ID11 |
| **A2B\_ID12** | Source Type Channel signal when a source is applied to ID12 |
| **A2B\_ID13** | Source Type Channel signal when a source is applied to ID13 |
| **A2B\_ID14** | Source Type Channel signal when a source is applied to ID14 |
| **A2B\_ID15** | Source Type Channel signal when a source is applied to ID15 |
| **A2B\_ID16** | Source Type Channel signal when a source is applied to ID16 |
| **A2B\_ID17** | Source Type Channel signal when a source is applied to ID17 |
| **A2B\_ID18** | Source Type Channel signal when a source is applied to ID18 |
| **A2B\_ID19** | Source Type Channel signal when a source is applied to ID19 |
| **A2B\_ID20** | Source Type Channel signal when a source is applied to ID20 |
| **A2B\_ID21** | Source Type Channel signal when a source is applied to ID21 |
| **A2B\_ID22** | Source Type Channel signal when a source is applied to ID22 |
| **A2B\_ID23** | Source Type Channel signal when a source is applied to ID23 |
| **A2B\_ID24** | Source Type Channel signal when a source is applied to ID24 |
| **A2B\_ID25** | Source Type Channel signal when a source is applied to ID25 |
| **A2B\_ID26** | Source Type Channel signal when a source is applied to ID26 |
| **A2B\_ID27** | Source Type Channel signal when a source is applied to ID27 |
| **A2B\_ID28** | Source Type Channel signal when a source is applied to ID28 |
| **A2B\_ID29** | Source Type Channel signal when a source is applied to ID29 |
| **A2B\_ID30** | Source Type Channel signal when a source is applied to ID30 |
| **A2B\_ID31** | Source Type Channel signal when a source is applied to ID131 |
| **A2B\_ID32** | Source Type Channel signal when a source is applied to ID32 |
| **BT\_Zone3** | Source Type channel signal when a source is applied to BT\_Zone3 |
| **BT\_Zone4** | Source Type channel signal when a source is applied to BT\_Zone4 |
| **BT\_Zone5** | Source Type channel signal when a source is applied to BT\_Zone5 |
| **BT\_Zone6** | Source Type channel signal when a source is applied to BT\_Zone6 |
| **Unit** | |  |

Table: Encoding Details of SourceTypeChannel\_TBD\_ET

PlayAudio\_Req\_ET

Encoding type for Play Audio Req (Play Audio Requested)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of PlayAudio\_Req\_ET

BluetoothAudioSource\_Connection\_ET

Encoding Type for Bluetooth Audio Source (Connected)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Connected** | Connected |
| **Unit** | |  |

Table: Encoding Details of BluetoothAudioSource\_Connection\_ET

Volume Control\_Feedback\_ET

Encoding Type for HMI Feedback update for Volume Control

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of Volume Control\_Feedback\_ET

Prompt\_Vol\_Level\_ET

Encoding Type for Prompt Vol Level (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | NoVolume |
| **Vol\_Step1** | Vol\_Step1 |
| **Vol\_Step2** | Vol\_Step2 |
| **Vol\_Step3** | Vol\_Step3 |
| **Vol\_Step4** | Vol\_Step4 |
| **Vol\_Step5** | Vol\_Step5 |
| **Vol\_Step6** | Vol\_Step6 |
| **Vol\_Step7** | Vol\_Step7 |
| **Vol\_Step8** | Vol\_Step8 |
| **Vol\_Step9** | Vol\_Step9 |
| **Vol\_Step10** | Vol\_Step10 |
| **Vol\_Step11** | Vol\_Step11 |
| **Vol\_Step12** | Vol\_Step12 |
| **Vol\_Step13** | Vol\_Step13 |
| **Vol\_Step14** | Vol\_Step14 |
| **Vol\_Step15** | Vol\_Step15 |
| **Vol\_Step16** | Vol\_Step16 |
| **Vol\_Step17** | Vol\_Step17 |
| **Vol\_Step18** | Vol\_Step18 |
| **Vol\_Step19** | Vol\_Step19 |
| **Vol\_Step20** | Vol\_Step20 |
| **Vol\_Step21** | Vol\_Step21 |
| **Vol\_Step22** | Vol\_Step22 |
| **Vol\_Step23** | Vol\_Step23 |
| **Vol\_Step24** | Vol\_Step24 |
| **Vol\_Step25** | Vol\_Step25 |
| **Vol\_Step26** | Vol\_Step26 |
| **Vol\_Step27** | Vol\_Step27 |
| **Vol\_Step28** | Vol\_Step28 |
| **Vol\_Step29** | Vol\_Step29 |
| **Vol\_Step30** | Vol\_Step30 |
| **Unit** | |  |

Table: Encoding Details of Prompt\_Vol\_Level\_ET

Offset\_Vol\_Zone\_Updated\_ET

Encoding Type for Offset Vol Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Updated |
| **NoUpdate** | NoUpdate |
| **Unit** | |  |

Table: Encoding Details of Offset\_Vol\_Zone\_Updated\_ET

Zone\_Cabin\_Mode\_Status\_ET

Encoding Type for HMI Status update for Zone/Cabin Mode

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of Zone\_Cabin\_Mode\_Status\_ET

TempSource\_Vol\_Level\_Zone\_TBD\_ET

Encoding Type for Temporary Source Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | Temporary Source Volume Level signal for Volume Level 0 |
| **Vol\_Step1** | Temporary Source Volume Level signal for Volume Level 1 |
| **Vol\_Step2** | Temporary Source Volume Level signal for Volume Level 2 |
| **Vol\_Step3** | Temporary Source Volume Level signal for Volume Level 3 |
| **Vol\_Step4** | Temporary Source Volume Level signal for Volume Level 4 |
| **Vol\_Step5** | Temporary Source Volume Level signal for Volume Level 5 |
| **Vol\_Step6** | Temporary Source Volume Level signal for Volume Level 6 |
| **Vol\_Step7** | Temporary Source Volume Level signal for Volume Level 7 |
| **Vol\_Step8** | Temporary Source Volume Level signal for Volume Level 8 |
| **Vol\_Step9** | Temporary Source Volume Level signal for Volume Level 9 |
| **Vol\_Step10** | Temporary Source Volume Level signal for Volume Level 10 |
| **Vol\_Step11** | Temporary Source Volume Level signal for Volume Level 11 |
| **Vol\_Step12** | Temporary Source Volume Level signal for Volume Level 12 |
| **Vol\_Step13** | Temporary Source Volume Level signal for Volume Level 13 |
| **Vol\_Step14** | Temporary Source Volume Level signal for Volume Level 14 |
| **Vol\_Step15** | Temporary Source Volume Level signal for Volume Level 15 |
| **Vol\_Step16** | Temporary Source Volume Level signal for Volume Level 16 |
| **Vol\_Step17** | Temporary Source Volume Level signal for Volume Level 17 |
| **Vol\_Step18** | Temporary Source Volume Level signal for Volume Level 18 |
| **Vol\_Step19** | Temporary Source Volume Level signal for Volume Level 19 |
| **Vol\_Step20** | Temporary Source Volume Level signal for Volume Level 20 |
| **Vol\_Step21** | Temporary Source Volume Level signal for Volume Level 21 |
| **Vol\_Step22** | Temporary Source Volume Level signal for Volume Level 22 |
| **Vol\_Step23** | Temporary Source Volume Level signal for Volume Level 23 |
| **Vol\_Step24** | Temporary Source Volume Level signal for Volume Level 24 |
| **Vol\_Step25** | Temporary Source Volume Level signal for Volume Level 25 |
| **Vol\_Step26** | Temporary Source Volume Level signal for Volume Level 26 |
| **Vol\_Step27** | Temporary Source Volume Level signal for Volume Level 27 |
| **Vol\_Step28** | Temporary Source Volume Level signal for Volume Level 28 |
| **Vol\_Step29** | Temporary Source Volume Level signal for Volume Level 29 |
| **Vol\_Step30** | Temporary Source Volume Level signal for Volume Level 30 |
| **Unit** | |  |

Table: Encoding Details of TempSource\_Vol\_Level\_Zone\_TBD\_ET

EE\_Conection\_Data

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Connection Type** |  |
| **Protocol** |  |
| **Description** |  |
| **Allocated Messages** |  |
| **Connected Nodes** |  |
| **Unit** | |  |

Table: Encoding Details of EE\_Conection\_Data

CA.Rq\_ET

Encoding Type for Captain's Announcement Request (Null/ActivateCA/CancelCA)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Null** | Null |
| **ActivateCA** | ActivateCA |
| **CancelCA** | CancelCA |
| **Unit** | |  |

Table: Encoding Details of CA.Rq\_ET

Protocol\_Type

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **CAD FD** |  |
| **CAN (Mid Speed)** |  |
| **CAN (High Speed)** |  |
| **WiFi (DSRC)** |  |
| **WiFi (FTCP)** |  |
| **Ethernet (MQTT)** |  |
| **Bluetooth** |  |
| **Automotive Audio Bus** |  |
| **Video** |  |
| **N/A** |  |
| **Unit** | |  |

Table: Encoding Details of Protocol\_Type

HMI\_Phone Call\_Status\_ET

Encoding Type for Phone Call\_Status (LVDS Status)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of HMI\_Phone Call\_Status\_ET

ICC.St\_ET

Encoding Type for ICC Status (Inactive/Enabled/Temporarily Disabled)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | Inactive |
| **Enabled** | Enabled |
| **Temporarily Disabled** | Temporarily Disabled |
| **Unit** | |  |

Table: Encoding Details of ICC.St\_ET

Phone\_Vol\_Updated\_TBD\_ET

Encoding Type for Phone Vol Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Phone Volume Update signal for when the volume is updated |
| **NoUpdate** | Phone Volume Update signal for when the volume is not updated |
| **Unit** | |  |

Table: Encoding Details of Phone\_Vol\_Updated\_TBD\_ET

Audio\_Vol\_Updated\_ET

Encoding Type for Audio Vol Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Updated |
| **NoUpdate** | NoUpdate |
| **Unit** | |  |

Table: Encoding Details of Audio\_Vol\_Updated\_ET

BLE\_ChangeVolume\_ET

Encoding Type for Change Volume (Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of BLE\_ChangeVolume\_ET

VehicleAudioMode\_ET

Encoding Type for Vehicle Audio Mode (Null/ Cabin/ Zone)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Null** | Null |
| **Cabin** | Cabin |
| **Zone** | Zone |
| **Unit** | |  |

Table: Encoding Details of VehicleAudioMode\_ET

HMI\_Captains Announcement\_ Status\_ET

Encoding Type for Captain's Announcement Status (LVDS Status)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of HMI\_Captains Announcement\_ Status\_ET

RA\_Vol\_Level\_ET

Encoding Type for Radio's Announcement Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | NoVolume |
| **Vol\_Step1** | Vol\_Step1 |
| **Vol\_Step2** | Vol\_Step2 |
| **Vol\_Step3** | Vol\_Step3 |
| **Vol\_Step4** | Vol\_Step4 |
| **Vol\_Step5** | Vol\_Step5 |
| **Vol\_Step6** | Vol\_Step6 |
| **Vol\_Step7** | Vol\_Step7 |
| **Vol\_Step8** | Vol\_Step8 |
| **Vol\_Step9** | Vol\_Step9 |
| **Vol\_Step10** | Vol\_Step10 |
| **Vol\_Step11** | Vol\_Step11 |
| **Vol\_Step12** | Vol\_Step12 |
| **Vol\_Step13** | Vol\_Step13 |
| **Vol\_Step14** | Vol\_Step14 |
| **Vol\_Step15** | Vol\_Step15 |
| **Vol\_Step16** | Vol\_Step16 |
| **Vol\_Step17** | Vol\_Step17 |
| **Vol\_Step18** | Vol\_Step18 |
| **Vol\_Step19** | Vol\_Step19 |
| **Vol\_Step20** | Vol\_Step20 |
| **Vol\_Step21** | Vol\_Step21 |
| **Vol\_Step22** | Vol\_Step22 |
| **Vol\_Step23** | Vol\_Step23 |
| **Vol\_Step24** | Vol\_Step24 |
| **Vol\_Step25** | Vol\_Step25 |
| **Vol\_Step26** | Vol\_Step26 |
| **Vol\_Step27** | Vol\_Step27 |
| **Vol\_Step28** | Vol\_Step28 |
| **Vol\_Step29** | Vol\_Step29 |
| **Vol\_Step30** | Vol\_Step30 |
| **Unit** | |  |

Table: Encoding Details of RA\_Vol\_Level\_ET

Audio\_Vol\_Level\_Zone\_ET

Encoding Type for Audio Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | NoVolume |
| **Vol\_Step1** | Vol\_Step1 |
| **Vol\_Step2** | Vol\_Step2 |
| **Vol\_Step3** | Vol\_Step3 |
| **Vol\_Step4** | Vol\_Step4 |
| **Vol\_Step5** | Vol\_Step5 |
| **Vol\_Step6** | Vol\_Step6 |
| **Vol\_Step7** | Vol\_Step7 |
| **Vol\_Step8** | Vol\_Step8 |
| **Vol\_Step9** | Vol\_Step9 |
| **Vol\_Step10** | Vol\_Step10 |
| **Vol\_Step11** | Vol\_Step11 |
| **Vol\_Step12** | Vol\_Step12 |
| **Vol\_Step13** | Vol\_Step13 |
| **Vol\_Step14** | Vol\_Step14 |
| **Vol\_Step15** | Vol\_Step15 |
| **Vol\_Step16** | Vol\_Step16 |
| **Vol\_Step17** | Vol\_Step17 |
| **Vol\_Step18** | Vol\_Step18 |
| **Vol\_Step19** | Vol\_Step19 |
| **Vol\_Step20** | Vol\_Step20 |
| **Vol\_Step21** | Vol\_Step21 |
| **Vol\_Step22** | Vol\_Step22 |
| **Vol\_Step23** | Vol\_Step23 |
| **Vol\_Step24** | Vol\_Step24 |
| **Vol\_Step25** | Vol\_Step25 |
| **Vol\_Step26** | Vol\_Step26 |
| **Vol\_Step27** | Vol\_Step27 |
| **Vol\_Step28** | Vol\_Step28 |
| **Vol\_Step29** | Vol\_Step29 |
| **Vol\_Step30** | Vol\_Step30 |
| **Unit** | |  |

Table: Encoding Details of Audio\_Vol\_Level\_Zone\_ET

MixableZonePromptsChannel\_TBD\_ET

Encoding Type for Mixable Zone Prompts Channel (Inactive/A2B\_ID1...A2B\_ID32/Reserved for future expansion)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | Mixable Zone Prompts Channel signal when is source is not being used |
| **A2B\_ID1** | Mixable Zone Prompts Channel signal when a source is applied to ID1 |
| **A2B\_ID2** | Mixable Zone Prompts Channel signal when a source is applied to ID2 |
| **A2B\_ID3** | Mixable Zone Prompts Channel signal when a source is applied to ID3 |
| **A2B\_ID4** | Mixable Zone Prompts Channel signal when a source is applied to ID4 |
| **A2B\_ID5** | Mixable Zone Prompts Channel signal when a source is applied to ID5 |
| **A2B\_ID6** | Mixable Zone Prompts Channel signal when a source is applied to ID6 |
| **A2B\_ID7** | Mixable Zone Prompts Channel signal when a source is applied to ID7 |
| **A2B\_ID8** | Mixable Zone Prompts Channel signal when a source is applied to ID8 |
| **A2B\_ID9** | Mixable Zone Prompts Channel signal when a source is applied to ID9 |
| **A2B\_ID10** | Mixable Zone Prompts Channel signal when a source is applied to ID10 |
| **A2B\_ID11** | Mixable Zone Prompts Channel signal when a source is applied to ID11 |
| **A2B\_ID12** | Mixable Zone Prompts Channel signal when a source is applied to ID12 |
| **A2B\_ID13** | Mixable Zone Prompts Channel signal when a source is applied to ID13 |
| **A2B\_ID14** | Mixable Zone Prompts Channel signal when a source is applied to ID14 |
| **A2B\_ID15** | Mixable Zone Prompts Channel signal when a source is applied to ID15 |
| **A2B\_ID16** | Mixable Zone Prompts Channel signal when a source is applied to ID16 |
| **A2B\_ID17** | Mixable Zone Prompts Channel signal when a source is applied to ID17 |
| **A2B\_ID18** | Mixable Zone Prompts Channel signal when a source is applied to ID18 |
| **A2B\_ID19** | Mixable Zone Prompts Channel signal when a source is applied to ID19 |
| **A2B\_ID20** | Mixable Zone Prompts Channel signal when a source is applied to ID20 |
| **A2B\_ID21** | Mixable Zone Prompts Channel signal when a source is applied to ID21 |
| **A2B\_ID22** | Mixable Zone Prompts Channel signal when a source is applied to ID22 |
| **A2B\_ID23** | Mixable Zone Prompts Channel signal when a source is applied to ID23 |
| **A2B\_ID24** | Mixable Zone Prompts Channel signal when a source is applied to ID24 |
| **A2B\_ID25** | Mixable Zone Prompts Channel signal when a source is applied to ID25 |
| **A2B\_ID26** | Mixable Zone Prompts Channel signal when a source is applied to ID26 |
| **A2B\_ID27** | Mixable Zone Prompts Channel signal when a source is applied to ID27 |
| **A2B\_ID28** | Mixable Zone Prompts Channel signal when a source is applied to ID28 |
| **A2B\_ID29** | Mixable Zone Prompts Channel signal when a source is applied to ID29 |
| **A2B\_ID30** | Mixable Zone Prompts Channel signal when a source is applied to ID30 |
| **A2B\_ID31** | Mixable Zone Prompts Channel signal when a source is applied to ID31 |
| **A2B\_ID32** | Mixable Zone Prompts Channel signal when a source is applied to ID32 |
| **Reserved for future expansion** | Mixable Zone Prompts Channel signals reserved for future expansion |
| **Unit** | |  |

Table: Encoding Details of MixableZonePromptsChannel\_TBD\_ET

Audio\_Vol\_Level\_ET

Encoding Type for Audio Vol Level (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | NoVolume |
| **Vol\_Step1** | Vol\_Step1 |
| **Vol\_Step2** | Vol\_Step2 |
| **Vol\_Step3** | Vol\_Step3 |
| **Vol\_Step4** | Vol\_Step4 |
| **Vol\_Step5** | Vol\_Step5 |
| **Vol\_Step6** | Vol\_Step6 |
| **Vol\_Step7** | Vol\_Step7 |
| **Vol\_Step8** | Vol\_Step8 |
| **Vol\_Step9** | Vol\_Step9 |
| **Vol\_Step10** | Vol\_Step10 |
| **Vol\_Step11** | Vol\_Step11 |
| **Vol\_Step12** | Vol\_Step12 |
| **Vol\_Step13** | Vol\_Step13 |
| **Vol\_Step14** | Vol\_Step14 |
| **Vol\_Step15** | Vol\_Step15 |
| **Vol\_Step16** | Vol\_Step16 |
| **Vol\_Step17** | Vol\_Step17 |
| **Vol\_Step18** | Vol\_Step18 |
| **Vol\_Step19** | Vol\_Step19 |
| **Vol\_Step20** | Vol\_Step20 |
| **Vol\_Step21** | Vol\_Step21 |
| **Vol\_Step22** | Vol\_Step22 |
| **Vol\_Step23** | Vol\_Step23 |
| **Vol\_Step24** | Vol\_Step24 |
| **Vol\_Step25** | Vol\_Step25 |
| **Vol\_Step26** | Vol\_Step26 |
| **Vol\_Step27** | Vol\_Step27 |
| **Vol\_Step28** | Vol\_Step28 |
| **Vol\_Step29** | Vol\_Step29 |
| **Vol\_Step30** | Vol\_Step30 |
| **Unit** | |  |

Table: Encoding Details of Audio\_Vol\_Level\_ET

BLE\_AutomotiveAudioReq \_ET

Encoding type for Automotive Audio Req (Routed Audio Requested)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of BLE\_AutomotiveAudioReq \_ET

PhnCallZone\_D\_St\_ET

Encoding Type for Phone Call Zone Status (Inactive( Privacy/ Handsfree)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | Phone call status when there is no active phone call |
| **Privacy** | Phone call status when phone call audio is routed to zone speakers |
| **Handsfree** | Phone call status when phone call is routed to phone speakers |
| **Unit** | |  |

Table: Encoding Details of PhnCallZone\_D\_St\_ET

Audio\_Vol\_Updated\_TBD\_ET

Encoding Type for Audio Vol Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Cabin Audio Volume Update signal for when the volume is updated |
| **NoUpdate** | Cabin Audio Volume Update signal for when the volume is not updated |
| **Unit** | |  |

Table: Encoding Details of Audio\_Vol\_Updated\_TBD\_ET

CaptAnnouncement\_D\_St\_ET

Encoding Type for Captain's Announcement Request (Inactive/ CA Active/ CA Disabled)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | CA is able to accept input from client |
| **CA Active** | CA On based on user request |
| **CA Disabled** | CA server disables functionality |
| **Unit** | |  |

Table: Encoding Details of CaptAnnouncement\_D\_St\_ET

BTConnectionReq\_ET

Encoding Type for Bluetooth Connection Request (Connect/Disconnect)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Connect** | Connect |
| **Disconnect** | Disconnect |
| **Unit** | |  |

Table: Encoding Details of BTConnectionReq\_ET

Volume\_Command\_ET

Encoding Type for Volume Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of Volume\_Command\_ET

BT\_Command\_ET

Encoding Type for Bluetooth Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of BT\_Command\_ET

VolCntlr\_TempSource\_Vol\_Level\_Zone\_ET

Encoding Type for Volume Control Temporary Source Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | NoVolume |
| **Vol\_Step1** | Vol\_Step1 |
| **Vol\_Step2** | Vol\_Step2 |
| **Vol\_Step3** | Vol\_Step3 |
| **Vol\_Step4** | Vol\_Step4 |
| **Vol\_Step5** | Vol\_Step5 |
| **Vol\_Step6** | Vol\_Step6 |
| **Vol\_Step7** | Vol\_Step7 |
| **Vol\_Step8** | Vol\_Step8 |
| **Vol\_Step9** | Vol\_Step9 |
| **Vol\_Step10** | Vol\_Step10 |
| **Vol\_Step11** | Vol\_Step11 |
| **Vol\_Step12** | Vol\_Step12 |
| **Vol\_Step13** | Vol\_Step13 |
| **Vol\_Step14** | Vol\_Step14 |
| **Vol\_Step15** | Vol\_Step15 |
| **Vol\_Step16** | Vol\_Step16 |
| **Vol\_Step17** | Vol\_Step17 |
| **Vol\_Step18** | Vol\_Step18 |
| **Vol\_Step19** | Vol\_Step19 |
| **Vol\_Step20** | Vol\_Step20 |
| **Vol\_Step21** | Vol\_Step21 |
| **Vol\_Step22** | Vol\_Step22 |
| **Vol\_Step23** | Vol\_Step23 |
| **Vol\_Step24** | Vol\_Step24 |
| **Vol\_Step25** | Vol\_Step25 |
| **Vol\_Step26** | Vol\_Step26 |
| **Vol\_Step27** | Vol\_Step27 |
| **Vol\_Step28** | Vol\_Step28 |
| **Vol\_Step29** | Vol\_Step29 |
| **Vol\_Step30** | Vol\_Step30 |
| **Unit** | |  |

Table: Encoding Details of VolCntlr\_TempSource\_Vol\_Level\_Zone\_ET

CallRing\_Vol\_Level\_ET

Encoding Type for Call Ring Vol Level (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | NoVolume |
| **Vol\_Step1** | Vol\_Step1 |
| **Vol\_Step2** | Vol\_Step2 |
| **Vol\_Step3** | Vol\_Step3 |
| **Vol\_Step4** | Vol\_Step4 |
| **Vol\_Step5** | Vol\_Step5 |
| **Vol\_Step6** | Vol\_Step6 |
| **Vol\_Step7** | Vol\_Step7 |
| **Vol\_Step8** | Vol\_Step8 |
| **Vol\_Step9** | Vol\_Step9 |
| **Vol\_Step10** | Vol\_Step10 |
| **Vol\_Step11** | Vol\_Step11 |
| **Vol\_Step12** | Vol\_Step12 |
| **Vol\_Step13** | Vol\_Step13 |
| **Vol\_Step14** | Vol\_Step14 |
| **Vol\_Step15** | Vol\_Step15 |
| **Vol\_Step16** | Vol\_Step16 |
| **Vol\_Step17** | Vol\_Step17 |
| **Vol\_Step18** | Vol\_Step18 |
| **Vol\_Step19** | Vol\_Step19 |
| **Vol\_Step20** | Vol\_Step20 |
| **Vol\_Step21** | Vol\_Step21 |
| **Vol\_Step22** | Vol\_Step22 |
| **Vol\_Step23** | Vol\_Step23 |
| **Vol\_Step24** | Vol\_Step24 |
| **Vol\_Step25** | Vol\_Step25 |
| **Vol\_Step26** | Vol\_Step26 |
| **Vol\_Step27** | Vol\_Step27 |
| **Vol\_Step28** | Vol\_Step28 |
| **Vol\_Step29** | Vol\_Step29 |
| **Vol\_Step30** | Vol\_Step30 |
| **Unit** | |  |

Table: Encoding Details of CallRing\_Vol\_Level\_ET

Source Selection\_Feedback\_ET

Encoding Type for HMI Status update for Source Selection Feedback (LVDS Feedback)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of Source Selection\_Feedback\_ET

PAC\_VehicleAudioMode\_Rsp\_TBD\_ET

Encoding Type for Vehicle Audio Mode Response (Null/ Cabin/ Zone)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Null** | Null |
| **Cabin** | Audio Mode status signal for "Cabin Mode" stored in the audio controller |
| **Zone** | Audio Mode status signal for "Zone Mode" stored in the audio controller |
| **Unit** | |  |

Table: Encoding Details of PAC\_VehicleAudioMode\_Rsp\_TBD\_ET

SourceTypeStatus\_TBD\_ET

Encoding Type for Source Type Status (Inactive/ Deallocated/ Stacked/ Granted)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | Source Type Status signal for when there the source is not being used |
| **Deallocated** | Source Type Status signal for when a source is deallocated from a channel |
| **Stacked** | Source Type Status signal for when a source is stacked with another source |
| **Granted** | Source Type Status signal for when a source is granted to a channel |
| **Unit** | |  |

Table: Encoding Details of SourceTypeStatus\_TBD\_ET

Offset\_Vol\_Zone\_ET

Encoding Type for Offset Volume Zone (-3/-2/-1/0/1/2/3/Unused)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **-3** | -3 |
| **-2** | -2 |
| **-1** | -1 |
| **0** | 0 |
| **1** | 1 |
| **2** | 2 |
| **3** | 3 |
| **Unused** | Unused |
| **Unit** | |  |

Table: Encoding Details of Offset\_Vol\_Zone\_ET

CallRing\_Vol\_Updated\_TBD\_ET

Encoding Type for Call Ring Vol Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Call Ring Volume Update signal for when the volume is updated |
| **NoUpdate** | Call Ring Volume Update signal for when the volume is not updated |
| **Unit** | |  |

Table: Encoding Details of CallRing\_Vol\_Updated\_TBD\_ET

ICC\_Rq\_ET

Encoding Type for ICC Request (Inactive/Active)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | Inactive |
| **Active** | Active |
| **Unit** | |  |

Table: Encoding Details of ICC\_Rq\_ET

CallRing\_Vol\_Level\_TBD\_ET

Encoding Type for Call Ring Vol Level (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | Call Ring Volume Level signal for volume level 0 |
| **Vol\_Step1** | Call Ring Volume Level signal for volume level 1 |
| **Vol\_Step2** | Call Ring Volume Level signal for volume level 2 |
| **Vol\_Step3** | Call Ring Volume Level signal for volume level 3 |
| **Vol\_Step4** | Call Ring Volume Level signal for volume level 4 |
| **Vol\_Step5** | Call Ring Volume Level signal for volume level 5 |
| **Vol\_Step6** | Call Ring Volume Level signal for volume level 6 |
| **Vol\_Step7** | Call Ring Volume Level signal for volume level 7 |
| **Vol\_Step8** | Call Ring Volume Level signal for volume level 8 |
| **Vol\_Step9** | Call Ring Volume Level signal for volume level 9 |
| **Vol\_Step10** | Call Ring Volume Level signal for volume level 10 |
| **Vol\_Step11** | Call Ring Volume Level signal for volume level 11 |
| **Vol\_Step12** | Call Ring Volume Level signal for volume level 12 |
| **Vol\_Step13** | Call Ring Volume Level signal for volume level 13 |
| **Vol\_Step14** | Call Ring Volume Level signal for volume level 14 |
| **Vol\_Step15** | Call Ring Volume Level signal for volume level 15 |
| **Vol\_Step16** | Call Ring Volume Level signal for volume level 16 |
| **Vol\_Step17** | Call Ring Volume Level signal for volume level 17 |
| **Vol\_Step18** | Call Ring Volume Level signal for volume level 18 |
| **Vol\_Step19** | Call Ring Volume Level signal for volume level 19 |
| **Vol\_Step20** | Call Ring Volume Level signal for volume level 20 |
| **Vol\_Step21** | Call Ring Volume Level signal for volume level 21 |
| **Vol\_Step22** | Call Ring Volume Level signal for volume level 22 |
| **Vol\_Step23** | Call Ring Volume Level signal for volume level 23 |
| **Vol\_Step24** | Call Ring Volume Level signal for volume level 24 |
| **Vol\_Step25** | Call Ring Volume Level signal for volume level 25 |
| **Vol\_Step26** | Call Ring Volume Level signal for volume level 26 |
| **Vol\_Step27** | Call Ring Volume Level signal for volume level 27 |
| **Vol\_Step28** | Call Ring Volume Level signal for volume level 28 |
| **Vol\_Step29** | Call Ring Volume Level signal for volume level 29 |
| **Vol\_Step30** | Call Ring Volume Level signal for volume level 30 |
| **Unit** | |  |

Table: Encoding Details of CallRing\_Vol\_Level\_TBD\_ET

RA\_Vol\_Updated\_ET

Encoding Type for Radio's Announcement Vol Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Updated |
| **NoUpdate** | NoUpdate |
| **Unit** | |  |

Table: Encoding Details of RA\_Vol\_Updated\_ET

Prompt\_Vol\_Level\_Zone\_TBD\_ET

Encoding Type for Prompt Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | Prompt Volume Level signal for volume level 0 |
| **Vol\_Step1** | Prompt Volume Level signal for volume level 1 |
| **Vol\_Step2** | Prompt Volume Level signal for volume level 2 |
| **Vol\_Step3** | Prompt Volume Level signal for volume level 3 |
| **Vol\_Step4** | Prompt Volume Level signal for volume level 4 |
| **Vol\_Step5** | Prompt Volume Level signal for volume level 5 |
| **Vol\_Step6** | Prompt Volume Level signal for volume level 6 |
| **Vol\_Step7** | Prompt Volume Level signal for volume level 7 |
| **Vol\_Step8** | Prompt Volume Level signal for volume level 8 |
| **Vol\_Step9** | Prompt Volume Level signal for volume level 9 |
| **Vol\_Step10** | Prompt Volume Level signal for volume level 10 |
| **Vol\_Step11** | Prompt Volume Level signal for volume level 11 |
| **Vol\_Step12** | Prompt Volume Level signal for volume level 12 |
| **Vol\_Step13** | Prompt Volume Level signal for volume level 13 |
| **Vol\_Step14** | Prompt Volume Level signal for volume level 14 |
| **Vol\_Step15** | Prompt Volume Level signal for volume level 15 |
| **Vol\_Step16** | Prompt Volume Level signal for volume level 16 |
| **Vol\_Step17** | Prompt Volume Level signal for volume level 17 |
| **Vol\_Step18** | Prompt Volume Level signal for volume level 18 |
| **Vol\_Step19** | Prompt Volume Level signal for volume level 19 |
| **Vol\_Step20** | Prompt Volume Level signal for volume level 20 |
| **Vol\_Step21** | Prompt Volume Level signal for volume level 21 |
| **Vol\_Step22** | Prompt Volume Level signal for volume level 22 |
| **Vol\_Step23** | Prompt Volume Level signal for volume level 23 |
| **Vol\_Step24** | Prompt Volume Level signal for volume level 24 |
| **Vol\_Step25** | Prompt Volume Level signal for volume level 25 |
| **Vol\_Step26** | Prompt Volume Level signal for volume level 26 |
| **Vol\_Step27** | Prompt Volume Level signal for volume level 27 |
| **Vol\_Step28** | Prompt Volume Level signal for volume level 28 |
| **Vol\_Step29** | Prompt Volume Level signal for volume level 29 |
| **Vol\_Step30** | Prompt Volume Level signal for volume level 30 |
| **Unit** | |  |

Table: Encoding Details of Prompt\_Vol\_Level\_Zone\_TBD\_ET

Phone Call\_Status\_ET

Encoding Type for HMI Status update for Phone Call)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of Phone Call\_Status\_ET

HMI\_DND Status\_ET

Encoding Type for Captain's Announcement Status (LVDS Status)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of HMI\_DND Status\_ET

DSP\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD\_ET

Encoding Type for Volume Control Audio Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | Signal Processor Audio Volume Level signal for volume level 0 |
| **Vol\_Step1** | Signal Processor Audio Volume Level signal for volume level 1 |
| **Vol\_Step2** | Signal Processor Audio Volume Level signal for volume level 2 |
| **Vol\_Step3** | Signal Processor Audio Volume Level signal for volume level 3 |
| **Vol\_Step4** | Signal Processor Audio Volume Level signal for volume level 4 |
| **Vol\_Step5** | Signal Processor Audio Volume Level signal for volume level 5 |
| **Vol\_Step6** | Signal Processor Audio Volume Level signal for volume level 6 |
| **Vol\_Step7** | Signal Processor Audio Volume Level signal for volume level 7 |
| **Vol\_Step8** | Signal Processor Audio Volume Level signal for volume level 8 |
| **Vol\_Step9** | Signal Processor Audio Volume Level signal for volume level 9 |
| **Vol\_Step10** | Signal Processor Audio Volume Level signal for volume level 10 |
| **Vol\_Step11** | Signal Processor Audio Volume Level signal for volume level 11 |
| **Vol\_Step12** | Signal Processor Audio Volume Level signal for volume level 12 |
| **Vol\_Step13** | Signal Processor Audio Volume Level signal for volume level 13 |
| **Vol\_Step14** | Signal Processor Audio Volume Level signal for volume level 14 |
| **Vol\_Step15** | Signal Processor Audio Volume Level signal for volume level 15 |
| **Vol\_Step16** | Signal Processor Audio Volume Level signal for volume level 16 |
| **Vol\_Step17** | Signal Processor Audio Volume Level signal for volume level 17 |
| **Vol\_Step18** | Signal Processor Audio Volume Level signal for volume level 18 |
| **Vol\_Step19** | Signal Processor Audio Volume Level signal for volume level 19 |
| **Vol\_Step20** | Signal Processor Audio Volume Level signal for volume level 20 |
| **Vol\_Step21** | Signal Processor Audio Volume Level signal for volume level 21 |
| **Vol\_Step22** | Signal Processor Audio Volume Level signal for volume level 22 |
| **Vol\_Step23** | Signal Processor Audio Volume Level signal for volume level 23 |
| **Vol\_Step24** | Signal Processor Audio Volume Level signal for volume level 24 |
| **Vol\_Step25** | Signal Processor Audio Volume Level signal for volume level 25 |
| **Vol\_Step26** | Signal Processor Audio Volume Level signal for volume level 2 |
| **Vol\_Step27** | Signal Processor Audio Volume Level signal for volume level 27 |
| **Vol\_Step28** | Signal Processor Audio Volume Level signal for volume level 28 |
| **Vol\_Step29** | Signal Processor Audio Volume Level signal for volume level 29 |
| **Vol\_Step30** | Signal Processor Audio Volume Level signal for volume level 30 |
| **Unit** | |  |

Table: Encoding Details of DSP\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD\_ET

Electrical\_Architecture\_Data

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Owner** |  |
| **Reference** |  |
| **Unit** | |  |

Table: Encoding Details of Electrical\_Architecture\_Data

Offset\_Vol\_Zone\_Updated\_TBD\_ET

Encoding Type for Offset Vol Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Offset Volume Update signal for when the volume is updated |
| **NoUpdate** | Offset Volume Update signal for when the volume is not updated |
| **Unit** | |  |

Table: Encoding Details of Offset\_Vol\_Zone\_Updated\_TBD\_ET

BluetoothAudioSource\_ET

Encoding Type for Bluetooth Audio Source (Connected)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Connected** | Connected |
| **Unit** | |  |

Table: Encoding Details of BluetoothAudioSource\_ET

Share\_Command\_ET

Encoding Type for Request Share Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of Share\_Command\_ET

PAC\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD\_ET

Encoding Type for Volume Control Audio Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | Audio Controller Audio Volume Level signal for volume level 0 |
| **Vol\_Step1** | Audio Controller Audio Volume Level signal for volume level 1 |
| **Vol\_Step2** | Audio Controller Audio Volume Level signal for volume level 2 |
| **Vol\_Step3** | Audio Controller Audio Volume Level signal for volume level 3 |
| **Vol\_Step4** | Audio Controller Audio Volume Level signal for volume level 4 |
| **Vol\_Step5** | Audio Controller Audio Volume Level signal for volume level 5 |
| **Vol\_Step6** | Audio Controller Audio Volume Level signal for volume level 6 |
| **Vol\_Step7** | Audio Controller Audio Volume Level signal for volume level 7 |
| **Vol\_Step8** | Audio Controller Audio Volume Level signal for volume level 8 |
| **Vol\_Step9** | Audio Controller Audio Volume Level signal for volume level 9 |
| **Vol\_Step10** | Audio Controller Audio Volume Level signal for volume level 10 |
| **Vol\_Step11** | Audio Controller Audio Volume Level signal for volume level 11 |
| **Vol\_Step12** | Audio Controller Audio Volume Level signal for volume level 12 |
| **Vol\_Step13** | Audio Controller Audio Volume Level signal for volume level 13 |
| **Vol\_Step14** | Audio Controller Audio Volume Level signal for volume level 14 |
| **Vol\_Step15** | Audio Controller Audio Volume Level signal for volume level 15 |
| **Vol\_Step16** | Audio Controller Audio Volume Level signal for volume level 16 |
| **Vol\_Step17** | Audio Controller Audio Volume Level signal for volume level 17 |
| **Vol\_Step18** | Audio Controller Audio Volume Level signal for volume level 18 |
| **Vol\_Step19** | Audio Controller Audio Volume Level signal for volume level 19 |
| **Vol\_Step20** | Audio Controller Audio Volume Level signal for volume level 20 |
| **Vol\_Step21** | Audio Controller Audio Volume Level signal for volume level 21 |
| **Vol\_Step22** | Audio Controller Audio Volume Level signal for volume level 22 |
| **Vol\_Step23** | Audio Controller Audio Volume Level signal for volume level 23 |
| **Vol\_Step24** | Audio Controller Audio Volume Level signal for volume level 24 |
| **Vol\_Step25** | Audio Controller Audio Volume Level signal for volume level 25 |
| **Vol\_Step26** | Audio Controller Audio Volume Level signal for volume level 26 |
| **Vol\_Step27** | Audio Controller Audio Volume Level signal for volume level 27 |
| **Vol\_Step28** | Audio Controller Audio Volume Level signal for volume level 28 |
| **Vol\_Step29** | Audio Controller Audio Volume Level signal for volume level 29 |
| **Vol\_Step30** | Audio Controller Audio Volume Level signal for volume level 30 |
| **Unit** | |  |

Table: Encoding Details of PAC\_VolCntlr\_Audio\_Vol\_Level\_Zone\_TBD\_ET

Phone\_Vol\_Level\_ET

Encoding Type for Phone Vol Level Zone (Zone 1/2/3/4/5/6)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | NoVolume |
| **Vol\_Step1** | Vol\_Step1 |
| **Vol\_Step2** | Vol\_Step2 |
| **Vol\_Step3** | Vol\_Step3 |
| **Vol\_Step4** | Vol\_Step4 |
| **Vol\_Step5** | Vol\_Step5 |
| **Vol\_Step6** | Vol\_Step6 |
| **Vol\_Step7** | Vol\_Step7 |
| **Vol\_Step8** | Vol\_Step8 |
| **Vol\_Step9** | Vol\_Step9 |
| **Vol\_Step10** | Vol\_Step10 |
| **Vol\_Step11** | Vol\_Step11 |
| **Vol\_Step12** | Vol\_Step12 |
| **Vol\_Step13** | Vol\_Step13 |
| **Vol\_Step14** | Vol\_Step14 |
| **Vol\_Step15** | Vol\_Step15 |
| **Vol\_Step16** | Vol\_Step16 |
| **Vol\_Step17** | Vol\_Step17 |
| **Vol\_Step18** | Vol\_Step18 |
| **Vol\_Step19** | Vol\_Step19 |
| **Vol\_Step20** | Vol\_Step20 |
| **Vol\_Step21** | Vol\_Step21 |
| **Vol\_Step22** | Vol\_Step22 |
| **Vol\_Step23** | Vol\_Step23 |
| **Vol\_Step24** | Vol\_Step24 |
| **Vol\_Step25** | Vol\_Step25 |
| **Vol\_Step26** | Vol\_Step26 |
| **Vol\_Step27** | Vol\_Step27 |
| **Vol\_Step28** | Vol\_Step28 |
| **Vol\_Step29** | Vol\_Step29 |
| **Vol\_Step30** | Vol\_Step30 |
| **Unit** | |  |

Table: Encoding Details of Phone\_Vol\_Level\_ET

VehicleAudioMode\_Rsp\_ET

Encoding Type for Vehicle Audio Mode Response (Null/ Cabin/ Zone)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Null** | Null |
| **Cabin** | Cabin |
| **Zone** | Zone |
| **Unit** | |  |

Table: Encoding Details of VehicleAudioMode\_Rsp\_ET

InCarComm\_D\_St\_ET

Encoding Type for ICC Status (Inactive/Enabled/Temporarily Disabled)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | ICC Status when it can accept user input |
| **Enabled** | ICC Status based on user request and when active |
| **Temporarily Disabled** | ICC status when ICC functionality is disabled. |
| **Unit** | |  |

Table: Encoding Details of InCarComm\_D\_St\_ET

VolCntlr\_Audio\_Vol\_Level\_Zone\_ET

Encoding Type for Volume Control Audio Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | NoVolume |
| **Vol\_Step1** | Vol\_Step1 |
| **Vol\_Step2** | Vol\_Step2 |
| **Vol\_Step3** | Vol\_Step3 |
| **Vol\_Step4** | Vol\_Step4 |
| **Vol\_Step5** | Vol\_Step5 |
| **Vol\_Step6** | Vol\_Step6 |
| **Vol\_Step7** | Vol\_Step7 |
| **Vol\_Step8** | Vol\_Step8 |
| **Vol\_Step9** | Vol\_Step9 |
| **Vol\_Step10** | Vol\_Step10 |
| **Vol\_Step11** | Vol\_Step11 |
| **Vol\_Step12** | Vol\_Step12 |
| **Vol\_Step13** | Vol\_Step13 |
| **Vol\_Step14** | Vol\_Step14 |
| **Vol\_Step15** | Vol\_Step15 |
| **Vol\_Step16** | Vol\_Step16 |
| **Vol\_Step17** | Vol\_Step17 |
| **Vol\_Step18** | Vol\_Step18 |
| **Vol\_Step19** | Vol\_Step19 |
| **Vol\_Step20** | Vol\_Step20 |
| **Vol\_Step21** | Vol\_Step21 |
| **Vol\_Step22** | Vol\_Step22 |
| **Vol\_Step23** | Vol\_Step23 |
| **Vol\_Step24** | Vol\_Step24 |
| **Vol\_Step25** | Vol\_Step25 |
| **Vol\_Step26** | Vol\_Step26 |
| **Vol\_Step27** | Vol\_Step27 |
| **Vol\_Step28** | Vol\_Step28 |
| **Vol\_Step29** | Vol\_Step29 |
| **Vol\_Step30** | Vol\_Step30 |
| **Unit** | |  |

Table: Encoding Details of VolCntlr\_Audio\_Vol\_Level\_Zone\_ET

SoundMode\_Command\_ET

Encoding Type for Sound Mode Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of SoundMode\_Command\_ET

AudioShareResp\_Command\_ET

Encoding Type for Audio Share Resp Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of AudioShareResp\_Command\_ET

HMI\_Volume Control\_Feedback\_ET

Encoding Type for Volume Control\_Feedback (LVDS Feedback)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of HMI\_Volume Control\_Feedback\_ET

RA\_Vol\_Level\_TBD\_ET

Encoding Type for Radio's Announcement Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | Radio Announcement Volume Level signal for volume level 0 |
| **Vol\_Step1** | Radio Announcement Volume Level signal for volume level 1 |
| **Vol\_Step2** | Radio Announcement Volume Level signal for volume level 2 |
| **Vol\_Step3** | Radio Announcement Volume Level signal for volume level 3 |
| **Vol\_Step4** | Radio Announcement Volume Level signal for volume level 4 |
| **Vol\_Step5** | Radio Announcement Volume Level signal for volume level 5 |
| **Vol\_Step6** | Radio Announcement Volume Level signal for volume level 6 |
| **Vol\_Step7** | Radio Announcement Volume Level signal for volume level 7 |
| **Vol\_Step8** | Radio Announcement Volume Level signal for volume level 8 |
| **Vol\_Step9** | Radio Announcement Volume Level signal for volume level 9 |
| **Vol\_Step10** | Radio Announcement Volume Level signal for volume level 10 |
| **Vol\_Step11** | Radio Announcement Volume Level signal for volume level 11 |
| **Vol\_Step12** | Radio Announcement Volume Level signal for volume level 12 |
| **Vol\_Step13** | Radio Announcement Volume Level signal for volume level 13 |
| **Vol\_Step14** | Radio Announcement Volume Level signal for volume level 14 |
| **Vol\_Step15** | Radio Announcement Volume Level signal for volume level 15 |
| **Vol\_Step16** | Radio Announcement Volume Level signal for volume level 16 |
| **Vol\_Step17** | Radio Announcement Volume Level signal for volume level 17 |
| **Vol\_Step18** | Radio Announcement Volume Level signal for volume level 18 |
| **Vol\_Step19** | Radio Announcement Volume Level signal for volume level 19 |
| **Vol\_Step20** | Radio Announcement Volume Level signal for volume level 20 |
| **Vol\_Step21** | Radio Announcement Volume Level signal for volume level 21 |
| **Vol\_Step22** | Radio Announcement Volume Level signal for volume level 22 |
| **Vol\_Step23** | Radio Announcement Volume Level signal for volume level 23 |
| **Vol\_Step24** | Radio Announcement Volume Level signal for volume level 24 |
| **Vol\_Step25** | Radio Announcement Volume Level signal for volume level 25 |
| **Vol\_Step26** | Radio Announcement Volume Level signal for volume level 26 |
| **Vol\_Step27** | Radio Announcement Volume Level signal for volume level 27 |
| **Vol\_Step28** | Radio Announcement Volume Level signal for volume level 28 |
| **Vol\_Step29** | Radio Announcement Volume Level signal for volume level 29 |
| **Vol\_Step30** | Radio Announcement Volume Level signal for volume level 30 |
| **Unit** | |  |

Table: Encoding Details of RA\_Vol\_Level\_TBD\_ET

MediashareRequest\_Feedback\_ET

Encoding Type for HMI Feedback update for Media Share Request

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of MediashareRequest\_Feedback\_ET

Audio\_Vol\_Zone\_Updated\_TBD\_ET

Encoding Type for Audio Vol Zone Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Audio Volume Update signal for when the volume is not updated. |
| **NoUpdate** | Audio Volume Update signal for when the volume is updated |
| **Unit** | |  |

Table: Encoding Details of Audio\_Vol\_Zone\_Updated\_TBD\_ET

BLE\_ChangeVolume\_ET

Encoding Type for Change Volume (Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of BLE\_ChangeVolume\_ET

SoundMode\_Command\_ET

Encoding Type for Sound Mode Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of SoundMode\_Command\_ET

DND\_Command\_ET

Encoding Type for Do Not Disturb Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of DND\_Command\_ET

DSP\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD\_ET

Encoding Type for Volume Control Temporary Source Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | Signal Processor Temporary Source Volume Level signal for volume level 0 |
| **Vol\_Step1** | Signal Processor Temporary Source Volume Level signal for volume level 1 |
| **Vol\_Step2** | Signal Processor Temporary Source Volume Level signal for volume level 2 |
| **Vol\_Step3** | Signal Processor Temporary Source Volume Level signal for volume level 3 |
| **Vol\_Step4** | Signal Processor Temporary Source Volume Level signal for volume level 4 |
| **Vol\_Step5** | Signal Processor Temporary Source Volume Level signal for volume level 5 |
| **Vol\_Step6** | Signal Processor Temporary Source Volume Level signal for volume level 6 |
| **Vol\_Step7** | Signal Processor Temporary Source Volume Level signal for volume level 7 |
| **Vol\_Step8** | Vol\_Step8Signal Processor Temporary Source Volume Level signal for volume level 8 |
| **Vol\_Step9** | Signal Processor Temporary Source Volume Level signal for volume level 9 |
| **Vol\_Step10** | Signal Processor Temporary Source Volume Level signal for volume level 10 |
| **Vol\_Step11** | Signal Processor Temporary Source Volume Level signal for volume level 11 |
| **Vol\_Step12** | Signal Processor Temporary Source Volume Level signal for volume level 12 |
| **Vol\_Step13** | Signal Processor Temporary Source Volume Level signal for volume level 13 |
| **Vol\_Step14** | Signal Processor Temporary Source Volume Level signal for volume level 14 |
| **Vol\_Step15** | Signal Processor Temporary Source Volume Level signal for volume level 15 |
| **Vol\_Step16** | Signal Processor Temporary Source Volume Level signal for volume level 16 |
| **Vol\_Step17** | Signal Processor Temporary Source Volume Level signal for volume level 17 |
| **Vol\_Step18** | Signal Processor Temporary Source Volume Level signal for volume level 18 |
| **Vol\_Step19** | Signal Processor Temporary Source Volume Level signal for volume level 19 |
| **Vol\_Step20** | Signal Processor Temporary Source Volume Level signal for volume level 20 |
| **Vol\_Step21** | Signal Processor Temporary Source Volume Level signal for volume level 21 |
| **Vol\_Step22** | Signal Processor Temporary Source Volume Level signal for volume level 22 |
| **Vol\_Step23** | Signal Processor Temporary Source Volume Level signal for volume level 23 |
| **Vol\_Step24** | Signal Processor Temporary Source Volume Level signal for volume level 24 |
| **Vol\_Step25** | Signal Processor Temporary Source Volume Level signal for volume level 25 |
| **Vol\_Step26** | Signal Processor Temporary Source Volume Level signal for volume level 26 |
| **Vol\_Step27** | Signal Processor Temporary Source Volume Level signal for volume level 27 |
| **Vol\_Step28** | Signal Processor Temporary Source Volume Level signal for volume level 28 |
| **Vol\_Step29** | Signal Processor Temporary Source Volume Level signal for volume level 29 |
| **Vol\_Step30** | Signal Processor Temporary Source Volume Level signal for volume level 30 |
| **Unit** | |  |

Table: Encoding Details of DSP\_VolCntlr\_TempSource\_Vol\_Level\_Zone\_TBD\_ET

PAC\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD\_ET

Encoding Type for Volume Control Offset Volume Zone (-3/-2/-1/0/1/2/3/Unused)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **-3** | Audio Controller Offset Volume Level signal for volume level -3 |
| **-2** | Audio Controller Offset Volume Level signal for volume level -2 |
| **-1** | Audio Controller Offset Volume Level signal for volume level -1 |
| **0** | Audio Controller Offset Volume Level signal for volume level 0 |
| **1** | Audio Controller Offset Volume Level signal for volume level 1 |
| **2** | Audio Controller Offset Volume Level signal for volume level 2 |
| **3** | Audio Controller Offset Volume Level signal for volume level 3 |
| **Unused** | Audio Controller Offset Volume Level signal for volume level "Unused" |
| **Unit** | |  |

Table: Encoding Details of PAC\_VolCntlr\_Offset\_Vol\_Level\_Zone\_TBD\_ET

ZoneLockReq\_ET

Encoding Type for Zone Lock Request (Activate/ Deactivate)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Activate** | Activate |
| **Deactivate** | Deactivate |
| **Unit** | |  |

Table: Encoding Details of ZoneLockReq\_ET

BTConnectionReq\_ET

Encoding Type for Bluetooth Connection Request (Connect/Disconnect)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Connect** | Connect |
| **Disconnect** | Disconnect |
| **Unit** | |  |

Table: Encoding Details of BTConnectionReq\_ET

HMI\_ZoneLockOut\_Feedback\_ET

Encoding Type for Zone Lock Out (LVDS Feedback)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of HMI\_ZoneLockOut\_Feedback\_ET

Audio\_Vol\_Level\_Zone\_TBD\_ET

Encoding Type for Audio Vol Level Zone (No Volume/Vol\_Step1...Vol\_Step30)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **NoVolume** | Audio Volume Level signals for volume level 0 |
| **Vol\_Step1** | Audio Volume Level signals for volume level 1 |
| **Vol\_Step2** | Audio Volume Level signals for volume level 2 |
| **Vol\_Step3** | Audio Volume Level signals for volume level 3 |
| **Vol\_Step4** | Audio Volume Level signals for volume level 4 |
| **Vol\_Step5** | Audio Volume Level signals for volume level 5 |
| **Vol\_Step6** | Audio Volume Level signals for volume level 6 |
| **Vol\_Step7** | Audio Volume Level signals for volume level 7 |
| **Vol\_Step8** | Audio Volume Level signals for volume level 8 |
| **Vol\_Step9** | Audio Volume Level signals for volume level 9 |
| **Vol\_Step10** | Audio Volume Level signals for volume level 10 |
| **Vol\_Step11** | Audio Volume Level signals for volume level 11 |
| **Vol\_Step12** | Audio Volume Level signals for volume level 12 |
| **Vol\_Step13** | Audio Volume Level signals for volume level 13 |
| **Vol\_Step14** | Audio Volume Level signals for volume level 14 |
| **Vol\_Step15** | Audio Volume Level signals for volume level 15 |
| **Vol\_Step16** | Audio Volume Level signals for volume level 16 |
| **Vol\_Step17** | Audio Volume Level signals for volume level 17 |
| **Vol\_Step18** | Audio Volume Level signals for volume level 18 |
| **Vol\_Step19** | Audio Volume Level signals for volume level 19 |
| **Vol\_Step20** | Audio Volume Level signals for volume level 20 |
| **Vol\_Step21** | Audio Volume Level signals for volume level 21 |
| **Vol\_Step22** | Audio Volume Level signals for volume level 22 |
| **Vol\_Step23** | Audio Volume Level signals for volume level 23 |
| **Vol\_Step24** | Audio Volume Level signals for volume level 24 |
| **Vol\_Step25** | Audio Volume Level signals for volume level 25 |
| **Vol\_Step26** | Audio Volume Level signals for volume level 26 |
| **Vol\_Step27** | Audio Volume Level signals for volume level 27 |
| **Vol\_Step28** | Audio Volume Level signals for volume level 28 |
| **Vol\_Step29** | Audio Volume Level signals for volume level 29 |
| **Vol\_Step30** | Audio Volume Level signals for volume level 30 |
| **Unit** | |  |

Table: Encoding Details of Audio\_Vol\_Level\_Zone\_TBD\_ET

DND Status\_ET

Encoding Type for HMI Status update for DND Status

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of DND Status\_ET

SourceTypeChannel\_ET

Encoding Type for Source Type Channel (Inactive/A2B\_ID1...A2B\_ID32/Reserved for future expansion)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | Inactive |
| **BT\_Zone2** | BT\_Zone2 |
| **Reserved for future expansion** | Reserved for future expansion |
| **A2B\_ID1** | A2B\_ID1 |
| **A2B\_ID2** | A2B\_ID2 |
| **A2B\_ID3** | A2B\_ID3 |
| **A2B\_ID4** | A2B\_ID4 |
| **A2B\_ID5** | A2B\_ID5 |
| **A2B\_ID6** | A2B\_ID6 |
| **A2B\_ID7** | A2B\_ID7 |
| **A2B\_ID8** | A2B\_ID8 |
| **A2B\_ID9** | A2B\_ID9 |
| **A2B\_ID10** | A2B\_ID10 |
| **A2B\_ID11** | A2B\_ID11 |
| **A2B\_ID12** | A2B\_ID12 |
| **A2B\_ID13** | A2B\_ID13 |
| **A2B\_ID14** | A2B\_ID14 |
| **A2B\_ID15** | A2B\_ID15 |
| **A2B\_ID16** | A2B\_ID16 |
| **A2B\_ID17** | A2B\_ID17 |
| **A2B\_ID18** | A2B\_ID18 |
| **A2B\_ID19** | A2B\_ID19 |
| **A2B\_ID20** | A2B\_ID20 |
| **A2B\_ID21** | A2B\_ID21 |
| **A2B\_ID22** | A2B\_ID22 |
| **A2B\_ID23** | A2B\_ID23 |
| **A2B\_ID24** | A2B\_ID24 |
| **A2B\_ID25** | A2B\_ID25 |
| **A2B\_ID26** | A2B\_ID26 |
| **A2B\_ID27** | A2B\_ID27 |
| **A2B\_ID28** | A2B\_ID28 |
| **A2B\_ID29** | A2B\_ID29 |
| **A2B\_ID30** | A2B\_ID30 |
| **A2B\_ID31** | A2B\_ID31 |
| **A2B\_ID32** | A2B\_ID32 |
| **BT\_Zone3** | BT\_Zone3 |
| **BT\_Zone4** | BT\_Zone4 |
| **BT\_Zone5** | BT\_Zone5 |
| **BT\_Zone6** | BT\_Zone6 |
| **Unit** | |  |

Table: Encoding Details of SourceTypeChannel\_ET

BLE\_Share\_Rq\_ET

Encoding Type for Audio Share Response (Accepted/Declined)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Accept** | Accepted |
| **Decline** | Declined |
| **Unit** | |  |

Table: Encoding Details of BLE\_Share\_Rq\_ET

CallRing\_Vol\_Updated\_ET

Encoding Type for Call Ring Vol Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Updated |
| **NoUpdate** | NoUpdate |
| **Unit** | |  |

Table: Encoding Details of CallRing\_Vol\_Updated\_ET

PhnCallSwtchZone\_D\_Rq\_ET

Encoding Type for Phone Call Zone Request (NoCall/ CallRinging/ CallActive)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **NoCall** | Request input when there is no active phone call |
| **CallRinging** | Request input when a call is received and "ringing" |
| **CallActive** | Request input when a passenger takes or receives a call |
| **Unit** | |  |

Table: Encoding Details of PhnCallSwtchZone\_D\_Rq\_ET

HMI\_In-Car Communication Status\_ET

Encoding Type for ICC Status (LVDS Status)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of HMI\_In-Car Communication Status\_ET

BLE\_DND.Rq\_ET

Encoding Type for Do Not Disturb (Enable/Disable)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Enable** | Enable |
| **Disable** | Disable |
| **Unit** | |  |

Table: Encoding Details of BLE\_DND.Rq\_ET

InCarComm\_B\_Rq\_ET

Encoding Type for ICC Request (Inactive/Active)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | User input for cancelling ICC |
| **Active** | User input for activating ICC |
| **Unit** | |  |

Table: Encoding Details of InCarComm\_B\_Rq\_ET

BLE\_AudioShareResp\_Req\_ET

Encoding type for Audio SHare Response (Accept/Decline)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Accept** | Accept |
| **Decline** | Decline |
| **Unit** | |  |

Table: Encoding Details of BLE\_AudioShareResp\_Req\_ET

DND\_Command\_ET

Encoding Type for Do Not Disturb Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of DND\_Command\_ET

HMI\_MediashareRequest\_Feedback\_ET

Encoding Type for MediashareRequest\_Feedback (LVDS Feedback)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of HMI\_MediashareRequest\_Feedback\_ET

CA\_Command\_ET

Encoding Type for Captain's Announcement Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of CA\_Command\_ET

BluetoothAudioSource\_Connection\_ET

Encoding Type for Bluetooth Audio Source (Connected)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Connected** | Connected |
| **Unit** | |  |

Table: Encoding Details of BluetoothAudioSource\_Connection\_ET

PlayAudio\_Req\_ET

Encoding type for Play Audio Req (Play Audio Requested)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of PlayAudio\_Req\_ET

CaptAnnouncement\_D\_Rq\_ET

Encoding Type for Captain's Announcement Request (Null/ActivateCA/CancelCA)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Null** | Null |
| **ActivateCA** | User input to activate request |
| **CancelCA** | User input for cancelling CA |
| **Unit** | |  |

Table: Encoding Details of CaptAnnouncement\_D\_Rq\_ET

RA\_Vol\_Updated\_TBD\_ET

Encoding Type for Radio's Announcement Vol Updated (NoUpdate/Updated)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Updated** | Radio Announcement Volume Update signal for when the volume is updated |
| **NoUpdate** | Radio Announcement Volume Update signal for when the volume is not updated |
| **Unit** | |  |

Table: Encoding Details of RA\_Vol\_Updated\_TBD\_ET

MixableZonePrompts\_TBD\_ET

Encoding Type for Mixable Zone Prompts (Inactive/Active)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Inactive** | Status signal stating that Mixable Zone Prompts is inactive |
| **Active** | Status signal stating that Mixable Zone Prompts is active |
| **Unit** | |  |

Table: Encoding Details of MixableZonePrompts\_TBD\_ET

Volume\_Command\_ET

Encoding Type for Volume Command (Physical Touch)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of Volume\_Command\_ET

VehicleAudioMode\_TBD\_ET

Encoding Type for Vehicle Audio Mode (Null/ Cabin/ Zone)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Null** | Null |
| **Cabin** | Audio Mode change request signal for "Cabin Mode" |
| **Zone** | Audio Mode change request signal for "Zone Mode" |
| **Unit** | |  |

Table: Encoding Details of VehicleAudioMode\_TBD\_ET

HMI\_Zone\_Cabin\_Mode\_Status\_ET

Encoding Type for Zone\_Cabin\_Mode\_Status (LVDS Status)(Internal Signal)

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Unit** | |  |

Table: Encoding Details of HMI\_Zone\_Cabin\_Mode\_Status\_ET